# MISSOURI SPECIES AND COMMUNITIES\* OF CONSERVATION CONCERN





**JANUARY 2018** 

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#### **ACKNOWLEDGMENTS**

The following individuals contributed to the development of this document: Bruce Allen (Missouri Botanical Garden-MOBOT), Mike Arduser (Missouri Department of Conservation-MDC-retired), John Atwood (MOBOT), Alan Brant, John Brinda (MOBOT), Jeff Briggler (MDC), Malissa Briggler (MDC), Christopher Brown (Monsanto), Steve Buback (MDC), Dorothy Butler (MDC), Rick Clawson (MDC-retired), Bob DiStefano (MDC), Bill Elliott (MDC-retired), Tony Elliott (MDC), Randy Evans (MDC), Debby Fantz (MDC), Susan Farrington (MDC), Dennis Figg (MDC-retired), Jane Fitzgerald (Partners In Flight), Matt Gompper (University of Missouri - Columbia), Lonnie Hansen (MDC-retired), Janet Haslerig (MDC), Nels Holmberg (MOBOT), Peggy Horner (Ozark Regional Land Trust), Bob Hrabik (MDC), Vicki Jackson (University of Central Oklahoma), Brad Jacobs (MDC-retired), Tom Johnson (MDC-retired), Harold Kerns (MDC-retired), Dave Knuth (MDC), Phil Koenig, Jeff Koppelman (MDC-retired), Doug Ladd (The Nature Conservancy), Mike Leahy (MDC), Bill Mabee (MDC), Ted MacRae (Monsanto), Paul McKenzie (U.S. Fish and Wildlife Service-USFWS), Stephen McMurray (MDC), Elizabeth Middleton (MDC), Tim Nigh (MDC-retired), Doug Novinger (MDC), Elizabeth Olson (MDC), William Pflieger (MDC-retired), Barry Poulton (U.S. Geological Survey), Lynn Robbins (Missouri State University-retired), Randy Sarver (Department of Natural Resources), John Scheibe (Southeast Missouri State University), Tim Smith (MDC-retired), Janet Sternburg (MDC), Bill Summers, Richard Thoma (Monsantoretired), Dana Thomas (Institute of Botanical Training-IBT), Justin Thomas (IBT), James Trager (MOBOT, Shaw Nature Reserve), Jacob Westhoff (MDC), Kathryn Womack (MDC), George Yatskievych (UT Austin).

**NOTICE:** Please submit reports of all sightings of species and natural communities listed in this checklist on the forms provided in the back of this checklist. Special criteria apply to birds and reports should follow the guidelines listed in Appendix A.

#### INTRODUCTION

The Missouri Department of Conservation (MDC) is charged with the protection and management of Missouri's fish, forest, and wildlife resources. In the brief time since the settlement of Missouri, many plants and animals have declined to levels of concern and some have disappeared entirely. The species cataloged in this checklist represent 18 percent of the native vascular plants, 14 percent of the nonvascular plants, 28 percent of the vertebrate animals, and an unknown percentage of the native invertebrate species in Missouri. Together, the animals, plants, and natural communities represent Missouri's biological diversity—a natural heritage worth protecting.

The Department maintains two references relating to the status of listed plants and animals in Missouri: the *Missouri Species and Communities of Conservation Concern Checklist* (*Checklist*) and the *Wildlife Code of Missouri* (*Code*). The *Checklist* is used mainly for planning and communication purposes. All native animal species in the State of Missouri are protected as biological diversity elements unless a method of legal harvest, harm or take is described in the *Code*. All native plant species in the State of Missouri are protected as biological diversity elements only on land owned by the Missouri Department of Conservation. Species listed in the *Code* under 3 CSR 10-4.111 and all federally listed endangered and threatened plants and animals protected by the Endangered Species Act of 1973 (ESA) are protected by the State Endangered Species Law 252.240. Some additional plants and animals in this *Checklist* also appear in the *Code* and are afforded special legal protection.

#### How to use the checklist

The checklist, developed with the cooperation of specialists throughout the state, is a list of plants, animals, and natural communities that MDC is particularly concerned about due to population declines or apparent vulnerability. The global and state ranks indicate the level of concern for each Element's (i.e., a species or type of natural community) continued existence throughout its range and in Missouri, respectively. Global ranks are assigned by the Natural Heritage/Conservation Data Center personnel and/or NatureServe. State Ranks in Missouri are assigned by the Missouri Natural Heritage Program within the Missouri Department of Conservation.

The Global and State Ranking System methodology was developed and provided by The Nature Conservancy, Conservation Science Division, in association with the Network of Natural Heritage Programs and Conservation Data Centers.

The checklist is arranged by broad taxonomic groups (e.g., terrestrial natural communities, flowering plants, insects, fish, and mammals). Within each group, species are arranged alphabetically by their scientific names and terrestrial natural communities by community type. Each Element is identified by its scientific name, common name, state rank, global rank, state status, and federal status.

#### **TERMS AND DEFINITIONS**

#### **FEDERAL STATUS**

The federal status is derived from the provisions of the Endangered Species Act of 1973, as amended, which is administered by the U.S. Fish and Wildlife Service (USFWS). Passage of the Endangered Species Act of 1973 gave the United States one of the most important laws ever enacted by any country to prevent the extinction of imperiled animals and plants. Protecting endangered and threatened species and restoring them to the condition where their existence is no longer jeopardized is the primary objective of the USFWS Endangered Species Program.

**E: Endangered:** Any species which is in danger of extinction throughout all or a significant portion of its range.

**T:** Threatened: Any species which is likely to become endangered within the foreseeable future.

**C:** Candidate: Plants or animals which USFWS is reviewing for possible addition to the list of endangered and threatened species.

**PE: Proposed Endangered:** Species officially proposed for listing as endangered; final ruling not yet made.

**PT: Proposed Threatened:** Species officially proposed for listing as threatened; final ruling not yet made.

**SAT:** Threatened due to similarity of appearance: Species is listed for its protection due to similarity of appearance with another listed species. Species listed as SAT are not biologically threatened.

#### **STATE STATUS**

Rule 3CSR10-4.111 of the *Wildlife Code of Missouri* and certain state statutes apply to state *Code*-listed species.

**E: Endangered:** Determined by MDC under constitutional authority.

#### **GLOBAL RANK (GRANK)**

Global ranks are assigned and maintained by the Natural Heritage/Conservation Data Center and/or NatureServe. A numeric rank (G1 through G5) of relative imperilment based on standard rank factors: the estimated number of Element Occurrences (EOs) throughout the Element's global, national, or subnational range;

the estimated numbers of those EOs with good viability;

the estimated abundance of the Element (measured in terms of population for species Elements as well as occupied area or linear distance for both species and communities);

the estimated size of the Element's range;

the short- and long-term trends in the Element's distribution over its range;

the estimated number of adequately protected EOs throughout the Element's range globally, nationally, or subnationally;

the scope, severity, and immediacy of threats to the Element;

the vulnerability of the Element to intrusion; and

the specificity of the Element's environmental requirements.

#### GLOBAL RANK (Cont.)

**G1:** Critically Imperiled: At very high risk of extinction or elimination due to extreme rarity, very steep declines, or other factors.

**G2: Imperiled:** At high risk of extinction or elimination due to very restricted range, very few populations or occurrences, steep declines, or other factors.

**G3: Vulnerable:** At moderate risk of extinction or elimination due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors.

**G4: Apparently Secure:** Uncommon but not rare; some cause for long-term concern due to declines or other factors.

**G5:** Secure: Common; widespread and abundant.

**G#G#: Range Rank:** A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon. Ranges cannot skip more than two ranks (e.g., GU should be used rather than G1G4).

**GU:** Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Note: Whenever possible (when the range of uncertainty is three consecutive ranks or less), a range rank (e.g., G2G3) should be used to delineate the limits (range) of uncertainty.

**GNR:** Unranked: Global rank not yet assessed.

**GH: Possibly Extinct:** Known from only historical occurrences but still some hope of rediscovery. There is evidence that the species may be extinct but not enough to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is extinct.

**GX: Presumed Extinct:** Not located despite intensive searches and virtually no likelihood of rediscovery.

#### SUBRANK:

**T#: Infraspecific Taxon (binomial):** Rank applies to a subspecies or variety. Rules for assigning Tranks follow the same principles outlined above.

#### **QUALIFIERS:**

**?: Inexact Numeric Rank:** Denotes inexact numeric rank; it is not used in combination with range ranks, GH, or GX.

**Q: Questionable Taxonomy:** Distinctiveness of this entity as a taxon at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority (numerically higher) conservation status rank.

#### **STATE RANK**

Assigning national and subnational conservation status ranks for species and ecosystems (ecological communities and systems) follows the same general principles as used in assigning global status ranks. Subnational ranks are assigned and maintained by the Missouri Natural Heritage Program (MONHP).

**S1:** Critically Imperiled: Critically imperiled in the state because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state.

**S2: Imperiled:** Imperiled in the state because of rarity due to very restricted range, very few populations or occurrences, steep declines, or other factors making it very vulnerable to extirpation from the state.

**S3:** Vulnerable: Vulnerable in the state due to a restricted range, relatively few populations or occurrences, recent and widespread declines, or other factors making it vulnerable to extirpation.

**S4: Apparently Secure:** Uncommon but not rare; some cause for long-term concern due to declines or other factors.

**S5: Secure:** Common, widespread, and abundant in the state.

**S#S#: Range Rank:** A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty about the status of the species. Ranges cannot skip more than two ranks (e.g., SU is used rather than S1S4).

**SU:** Unrankable: Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

**S?:** Unranked: State rank not yet assessed.

**SE: Exotic:** An exotic established in the state; may be native in nearby regions (e.g., house finch or catalpa in eastern U.S.).

**SA:** Accidental: Accidental or casual in the state, in other words, infrequent and outside its usual range. Includes species (usually birds or butterflies) recorded once or only a few times at a location. A few of these species may have bred on the one or two occasions they were recorded. Examples include European strays or western birds on the East Coast and vice-versa.

**SP: Potential:** Potential that the species occurs in the state, but no extant or historic occurrences are accepted.

**SR: Reported:** Species reported in the state but without a basis for either accepting or rejecting the report, or the report not yet reviewed locally. Some of these are very recent discoveries for which the Program has not yet received first-hand information; others are old, obscure reports.

**SRF: Reported Falsely:** Species erroneously reported in the state and the error has persisted in the literature.

#### **STATE RANK (Cont.)**

**SH: Possibly Extirpated:** Known from only historical records but still some hope of rediscovery. There is evidence that the species may no longer be present in the state, but not enough information to state this with certainty. Examples of such evidence include (1) that a species has not been documented in approximately 20-40 years despite some searching or some evidence of significant habitat loss or degradation; and (2) that a species has been searched for unsuccessfully, but not thoroughly enough to presume that it is no longer present in the state.

**SX: Presumed Extirpated:** Species is believed to be extirpated from the state. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.

#### **QUALIFIERS:**

**?: Inexact or Uncertain:** Denotes inexact or uncertain rank; this should not be used with range ranks, SH, or SX.

## SPECIES CHANGES STATUS CHANGES PLANTS

*Carex atherodes* (Awned Sedge) from S1 to SH. No extant populations are documented and the species has not been reported in MO for more than 25 years.

Carex aquatilis var. substricta (A Sedge) from S1 to SH. No extant populations are documented and the species has not been reported in MO for more than 25 years.

*Carex longii* (Greenish-white Sedge) from S1 to SH. No extant populations are documented and the species has not been reported in MO for more than 25 years.

*Carex sprengelii* (Longbeak Sedge) from S1 to S2. Surveys indicate that it is more common and widely spread than implied by an S1 rank.

Carex sychnocephala (A Sedge) from S1 to SH. No extant populations are documented and the species has not been reported in MO for more than 25 years.

*Cyperus hystricinus* (Flatsedge) from S1 to S2. Surveys indicate that it is more common and widely spread than implied by an S1 rank.

*Cyperus plukenetii* (Plukenet's Cyperus) from S1 to S2. Surveys indicate that it is more common and widely spread than implied by an S1 rank.

*Desmodium strictum* (Pineland Tick Trefoil) from S1 to S2 due to long-term surveys indicating that several populations are stable.

*Dichanthelium yadkinense* (A Panic Grass) from SH to S1 due to three recent discoveries by Alan Brant , Justin Thomas, and Rick Gray.

*Echinacea angustifolia* (Narrow-leaved Coneflower) from SH to S1. Recently discovered by Steve Buback and Justin Thomas in Atchison Co.

*Fimbristylis littoralis* var. *littoralis* (A Fimbristylis) from S1? to S1. Recently discovered by Brad Pendley (FWS) at Mingo NWR. This was the first documented population since 1993.

Galium asprellum (Rough Bedstraw) from SU to SH. One documented location from DeKalb Co. in 1953.

*Ludwigia linearis* (Narrow-leaved Primrose) from SU to S1. First population documented since 1894 by Justin Thomas in Dade Co.

*Lycopus uniflorus* (Northern Bugleweed) from S2? to S1. Several voucher specimens from MO have been redetermined to be *L*. x *sherardii*.

*Schoenoplectus etuberculatus* (Canby's Bulrush) from S1 to SH. No extant records are documented and the species has not been reported in MO for more than 25 years.

*Schoenoplectus purshianus* (Weakstalk Bulrush) from S1 to S2. Recent discoveries have resulted in 8 known populations.

# STATUS CHANGES (Cont.) PLANTS (Cont.)

*Scirpus pedicellatus* (A Bulrush) from SU to S2. Recent surveys indicate that the species should be considered vulnerable with at least 5-10 populations found in MO.

*Tipularia discolor* (Cranefly Orchid) from S2 to S3. There are more than 15 documented populations in MO with reports of additional sites.

#### **FISH**

*Etheostoma cragini* (Arkansas Darter) removal of "C" as the USFWS 2016 decision to remove from the Federal Candidate List after additional surveys located the species at numerous additional sites and in new areas.

#### **MAMMALS**

*Myotis lucifugus* (Little Brown Myotis) from S3 to S2. Once common across the state, the little brown myotis has continued to decline dramatically within Missouri and across the eastern part of its range, resulting from impacts of White-nose Syndrome.

Myotis septentrionalis (Northern Long-eared Myotis) from S2 to S1 due to continued statewide population declines resulting from impacts of White-nose Syndrome.

#### **ADDITIONS**

#### **PLANTS**

#### Mosses

*Fissidens hallianus* (A moss) added as S2. Recently found by John Atwood, John Brenda, and Nels Holmberg at three locations in Pemiscot and Mississippi counties.

Funaria americana (American Funaria Moss) added as SU. Only one location known from Missouri (Cedar county) and very few from other nearby states.

#### Vascular Plants

*Agrostis scabra* (Rough Bentgrass) added as S1. Only one documented location in MO and found by Justin Thomas in Barton Co.

Andropogon hirsutior (Bushy Bluestem) added as SU due to recent discoveries in Barton and Newton counties and on Crowley's Ridge in southeastern MO.

*Carex missouriensis* (Missouri Sedge) added as SU. Noted as rare by field experts and there is a lack of documented populations that have been confirmed extant.

*Eleocharis bifida* (Glades Spikerush) added as S1. Recently documented as new to the state by Justin Thomas in Howell Co.

*Eragrostis curtipedicellata* (Gummy Lovegrass) added as S1. Only two populations have been recorded in MO, and they occur in Taney and Webster counties. It likely represents a range extension from the southern Great Plains although some consider it an introduced species to MO.

*Houstonia canadensis* (Canadian Summer Bluet) added as S1. Four populations have been documented by Justin Thomas in Cape Girardeau, Franklin, Jefferson, and St. Louis counties.

# ADDITIONS (Cont.) PLANTS (Cont.)

#### Vascular Plants (Cont.)

*Ludwigia glandulosa* subsp. *glandulosa* (Cylindricfruit Primrose-willow) added as S2. Several documented populations are now considered historic. Only 2 extant populations in Butler Co. are currently known.

*Mimosa strigillosa* (Powderpuff) added as S1. State record recently discovered by Andrew Braun in New Madrid Co.

*Rhynchospora globularis* (Globe Beaksedge) added as S1. Redetermination of herbarium specimens by Justin Thomas from collections in Howell Co. (previously considered *R. recognita*).

Rhynchospora glomerata (Clustered Beaksedge) added as SU. Recently discovered by Alan Brant in Wayne Co. and redetermined specimens at the Missouri Botanical Garden by Aaron Floden (previously considered *R. capitellata*).

Rosa foliolosa (White Prairie Rose) added as S1. Recently discovered in Missouri by Justin Thomas in St. Clair Co.

*Rudbeckia bicolor* (Pine-woods Coneflower) added as S1. Recently discovered in Missouri by Justin Thomas in St. Clair Co.

#### **MAMMALS**

*Perimyotis subflavus* (Tricolored Bat) as S2. Once fairly common throughout the state, the tricolored bat has declined dramatically across the eastern part of its range, including Missouri, resulting from impacts of White-nose Syndrome.

## **DELETIONS PLANTS**

*Geum virginianum* (Pale Avens) removed because recent submissions indicate the population to be more secure than previously thought. State rank will change from S1 to S3.

Panicum portoricense (A Panic Grass) removed as herbarium specimens were redetermined to be Dichanthelium neuranthum.

*Poa interior* (Inland Bluegrass) removed as the one documented population is now considered a railroad waif.

# TAXONOMIC CHANGES PLANTS

| Old Name                                 | Revised Name                                  |  |
|--|---|--|
| Oryzopsis racemose                       | Patis racemosa                                |  |
| Panicum dichotomum var. mattamuskeetense | Dichanthelium dichotomum ssp.                 |  |
|  | mattamuskeetense                              |  |
| Panicum dichotomum var. nitidum          | Dichanthelium dichotomum var. nitidum         |  |
| Panicum dichotomum var. yadkinense       | Dichanthelium yadkinense                      |  |
| Panicum leibergii                        | Dichanthelium leibergii                       |  |
| Panicum longifolium                      | Coleataenia longifolia ssp. longifolia        |  |
| Panicum verrucosum                       | Kellochloa verrucosa                          |  |
| Schoenoplectus hallii                    | Schoenoplectiella hallii                      |  |
| Schoenoplectus purshianus                | Schoenoplectiella purshiana                   |  |
| Schoenoplectus saximontanus (A Bulrush)  | Schoenoplectiella saximontana (Rocky Mountain |  |
|  | Bulrush)                                      |  |

#### **MUSSELS**

Cumberlandia monodonta to Margaritifera monodonta due to taxonomic revision.

Anodonta suborbiculata to Utterbackiana suborbiculata due to taxonomic revision.

Epioblasma florentina curtisii to Epioblasma curtisii due to taxonomic revision.

Fusconaia ebena to Reginaia ebenus due to taxonomic revision.

Obovaria jacksoniana to Obovaria arkansasensis due to taxonomic revision.

Quadrula cylindrica cylindrica to Theliderma cylindrica due to taxonomic revision.

Quadrula nodulata to Cyclonaias nodulata due to taxonomic revision.

#### **BIRDS**

Circus cyaneus to Circus hudsonius.

# CORRECTIONS MUSSELS

Toxolasma texasense to Toxolasma texasiense due to incorrect spelling of species name.

#### TERRESTRIAL NATURAL COMMUNITIES

In addition to lichens, plants, and animals, the MONHP tracks occurrences of high quality natural communities. Terrestrial natural communities are interrelated assemblages of plants, animals, and other living organisms incorporated into their physical surroundings- including geologic substrate, soils, topography and aspect - that are shaped by climate and other natural processes. High quality sites are ones that provide diverse assemblages of native species and represent the least distressed examples of ecosystems that existed in Missouri prior to European settlement. These natural communities frequently provide the habitat necessary for Missouri's listed lichens, plants, and animals. Examples of high-quality aquatic natural communities are included in the MONHP, although SRANKs have not been assigned to individual aquatic natural community types. Because MDC tracks occurrences of high quality natural communities, we encourage the submission of site information on natural communities as we do for species listed in this Checklist.

State ranks are assigned to natural communities using criteria that are similar to species SRANKs. Criteria include total number of occurrences, number of occurrences by grade [A-D], total acres, number of counties in which the community type occurs, number of protected occurrences, and threats. Global ranks are not applied to communities due to the difficulty in reconciling Missouri's classification system with larger scale classifications.

Natural community types have been classified using *The Terrestrial Natural Communities of Missouri* (Nelson, 2005). This classification system was developed to accomplish an inventory of the state's natural communities, prioritized by quality, size and distribution, to help meet land protection goals. The terrestrial natural communities tracked in MONHP (high-quality examples) are listed below with their SRANKs by major community type.

#### COMMUNITY TYPE

| FOREST                              | SRANK |
|-------------------------------------|-------|
| Dry-Mesic Loess/Glacial Till Forest | S3    |
| Mesic Loess/Glacial Till Forest     | S3    |
| Dry-Mesic Limestone/Dolomite Forest | S3    |
| Mesic Limestone/Dolomite Forest     | S3    |
| Dry-Mesic Chert Forest              | S4    |
| Dry-Mesic Sandstone Forest          | S3    |
| Mesic Sandstone Forest              | S2    |
| Dry-Mesic Sand Forest               | S1    |
| Mesic Sand Forest                   | S1    |
| Dry-Mesic Igneous Forest            | S4    |
| Dry-Mesic Bottomland Forest         | S3    |
| Mesic Bottomland Forest             | S2    |
| Wet-Mesic Bottomland Forest         | S2    |
| Wet Bottomland Forest               | S3    |
| Riverfront Forest                   | S4    |
| <b>Total Forest Types:</b>          | 15    |

| WOODLAND                              | <u>SRANK</u> |
|---------------------------------------|--------------|
| Dry Loess/Glacial Till Woodland       | S3           |
| Dry-Mesic Loess/Glacial Till Woodland | S3           |
| Dry Limestone/Dolomite Woodland       | S3           |
| Dry-Mesic Limestone/Dolomite Woodland | S3           |
| Dry Chert Woodland                    | S4           |
| Dry-Mesic Chert Woodland              | S4           |
| Dry Sandstone Woodland                | S3           |
| Dry-Mesic Sandstone Woodland          | S3           |
| Dry Sand Woodland                     | S1           |
| Dry-Mesic Sand Woodland               | S2           |
| Dry Igneous Woodland                  | S4           |
| Dry-Mesic Igneous Woodland            | S4           |
| Upland Flatwoods                      | S2           |
| Bottomland Flatwoods                  | S1           |
| Sinkhole Flatwoods                    | S2           |
| Dry-Mesic Bottomland Woodland         | S2           |
| Mesic Bottomland Woodland             | SH           |
| Wet-Mesic Bottomland Woodland         | S1           |
| Total Woodland Types:                 | 18           |

| <u>SAVANNA</u>                       | <u>SRANK</u> |
|--------------------------------------|--------------|
| Dry-Mesic Loess/Glacial Till Savanna | S1           |
| Mesic Loess/Glacial Till Savanna     | SH           |
| Limestone/Dolomite Savanna           | SH           |
| Chert Savanna                        | SH           |
| Sandstone/Shale Savanna              | SH           |
| Sand Savanna                         | S1           |
| Total Savanna Types:                 | 6            |

| PRAIRIE                              | SRANK      |
|--------------------------------------|------------|
| Dry Loess/Glacial Till Prairie       | S2         |
| Dry-Mesic Loess/Glacial Till Prairie | S1         |
| Mesic Loess/Glacial Till Prairie     | S1         |
| Dry Limestone/Dolomite Prairie       | S2         |
| Dry-Mesic Limestone/Dolomite Prairie | S2         |
| Dry-Mesic Chert Prairie              | S3         |
| Dry-Mesic Sandstone/Shale Prairie    | S3         |
| Sand Prairie                         | <b>S</b> 1 |
| Prairie Swale                        | S2         |
| Hardpan Prairie                      | S2         |
| Wet-Mesic Bottomland Prairie         | S1         |
| Wet Bottomland Prairie               | S1         |
| Total Prairie Types:                 | 12         |

| GLADE              | SRANK |
|--------------------|-------|
| Limestone Glade    | S2    |
| Dolomite Glade     | S3    |
| Chert Glade        | S2    |
| Sandstone Glade    | S2    |
| Igneous Glade      | S3    |
| Total Glade Types: | 5     |
| CI IFF/TALLIS      | SDANK |

| CLIFF/TALUS                    | SRANK |
|--------------------------------|-------|
| Dry Limestone/Dolomite Cliff   | S5    |
| Moist Limestone/Dolomite Cliff | S4    |
| Dry Sandstone Cliff            | S4    |
| Moist Sandstone Cliff          | S3    |
| Dry Chert Cliff                | S3    |
| Moist Chert Cliff              | S2    |
| Dry Igneous Cliff              | S4    |
| Moist Igneous Cliff            | S4    |
| Unconsolidated Bluff           | S3    |
| Limestone/Dolomite Talus       | S4    |
| Igneous Talus                  | S4    |
| Total Cliff/Talus Types:       | 11    |

| STREAM EDGE                     | <u>SRANK</u> |
|---------------------------------|--------------|
| Sand Bar                        | S3           |
| Gravel Wash                     | S3           |
| Stream Bank/River Bank          | S2           |
| <b>Total Stream Edge Types:</b> | 3            |

| WETLAND                   | <u>SRANK</u> |
|---------------------------|--------------|
| Marsh                     | S2           |
| Shrub Swamp               | S2           |
| Swamp                     | S1           |
| Pond Marsh                | S1           |
| Pond Shrub Swamp          | S2           |
| Pond Swamp                | S1           |
| Ozark Fen                 | S2           |
| Prairie Fen               | S2           |
| Forested Fen              | S2           |
| Glacial Fen               | S1           |
| Acid Seep                 | S2           |
| Saline Seep               | S1           |
| Limestone/Dolomite Spring | S3           |
| Total Wetland Types:      | 13           |

| CAVE  | <u>SRANK</u> |
|---|--------------|
| Aquatic Cave                                  | S4           |
| Terrestrial Cave                              | S4           |
| <b>Total Cave Types:</b>                      | 2            |
| <b>Total Terrestrial Natural Communities:</b> | 85           |

## THREATENED AND ENDANGERED SPECIES IN MISSOURI

| SCIENTIFIC NAME                     | COMMON NAME                                 | STATE <sup>1</sup> STATUS | FEDERAL <sup>2</sup> STATUS |
|-------------------------------------|---|---------------------------|-----------------------------|
| PLANTS                              | O O I I I I I I I I I I I I I I I I I I     |                           | TEDERILE STITLES            |
| Asclepias meadii                    | Mead's Milkweed                             | Endangered                | Threatened                  |
| Boltonia decurrens                  | Decurrent False Aster                       | Endangered                | Threatened                  |
| Geocarpon minimum                   | Geocarpon                                   | Endangered                | Threatened                  |
| Helenium virginicum                 | Virginia Sneezeweed                         | Endangered                | Threatened                  |
| Isotria medeoloides                 | Small Whorled Pogonia <sup>3</sup>          | Endangered                | Threatened                  |
| Lindera melissifolia                | Pondberry                                   | Endangered                | Endangered                  |
| Physaria filiformis                 | Missouri Bladderpod                         | Endangered                | Threatened                  |
| Platanthera leucophaea              | Eastern Prairie Fringed Orchid <sup>3</sup> | Endangered                | Threatened                  |
| Platanthera praeclara               | Western Prairie Fringed Orchid              | Endangered                | Threatened                  |
| Trifolium stoloniferum              | Running Buffalo Clover                      | Endangered                | Endangered                  |
|                                     |   |                           |                             |
| MOLLUSKS                            |   |                           |                             |
| Alasmidonta viridis                 | Slippershell Mussel                         | Endangered                |                             |
| Antrobia culveri                    | Tumbling Creek Cavesnail                    | Endangered                | Endangered                  |
| Elliptio crassidens                 | Elephantear                                 | Endangered                | Endon 1                     |
| Epioblasma curtisii                 | Curtis Pearlymussel                         | Endangered                | Endangered                  |
| Epioblasma triquetra                | Snuffbox                                    | Endangered                | Endangered                  |
| Lampsilis abrupta                   | Pink Mucket                                 | Endangered                | Endangered                  |
| Lampsilis higginsii                 | Higgins Eye Neosho Mucket                   | Endangered                | Endangered                  |
| Lampsilis rafinesqueana             | Scaleshell                                  | Endangered                | Endangered                  |
| Leptodea leptodon                   |   | Endangered                | Endangered                  |
| Margaritifera monodonta             | Spectaclecase                               | Endangered                | Endangered                  |
| Plethobasus cyphyus Potamilus capax | Sheepnose<br>Fat Pocketbook                 | Endangered                | Endangered                  |
|                                     |   | Endangered                | Endangered                  |
| Quadrula fragosa<br>Reginaia ebenus | Winged Mapleleaf Ebonyshell                 | Endangered Endangered     | Endangered                  |
| Simpsonaias ambigua                 | Salamander Mussel                           | Endangered                |                             |
| Theliderma cylindrica               | Rabbitsfoot                                 | Endangered                | Threatened                  |
| тнешаетта сунтатса                  | Kabbitsioot                                 | Endangered                | Timeatened                  |
| CRUSTACEANS                         |   |                           |                             |
| Cambarus aculabrum                  | Cave Crayfish                               |                           | Endangered                  |
|                                     |   |                           |                             |
| INSECTS                             |   |                           |                             |
| Nicrophorus americanus              | American Burying Beetle <sup>3</sup>        | Endangered                | Endangered                  |
| Somatochlora hineana                | Hine's Emerald                              | Endangered                | Endangered                  |
| FISH                                |   |                           |                             |
| Acipenser fulvescens                | Lake Sturgeon                               | Endangered                |                             |
| Amblyopsis rosae                    | Ozark Cavefish                              | Endangered                | Threatened                  |
| Cottus specus                       | Grotto Sculpin                              | Lindangered               | Endangered                  |
| Crystallaria asprella               | Crystal Darter                              | Endangered                | Diddigered                  |
| Etheostoma fusiforme                | Swamp Darter                                | Endangered                |                             |
| Etheostoma histrio                  | Harlequin Darter                            | Endangered                |                             |
| Etheostoma nianguae                 | Niangua Darter                              | Endangered                | Threatened                  |
| Etheostoma parvipinne               | Goldstripe Darter                           | Endangered                |                             |
| Etheostoma whipplei                 | Redfin Darter                               | Endangered                |                             |
| Forbesichthys agassizii             | Spring Cavefish                             | Endangered                |                             |
| Hybognathus hayi                    | Cypress Minnow                              | Endangered                |                             |
| Notropis maculatus                  | Taillight Shiner                            | Endangered                |                             |
| Notropis sabinae                    | Sabine Shiner                               | Endangered                |                             |
| Notropis topeka                     | Topeka Shiner                               | Endangered                | Endangered                  |
| Noturus eleutherus                  | Mountain Madtom                             | Endangered                |                             |
| Noturus placidus                    | Neosho Madtom                               | Endangered                | Threatened                  |
| Percina nasuta                      | Longnose Darter                             | Endangered                |                             |

### THREATENED AND ENDANGERED SPECIES IN MISSOURI (Cont.)

| SCIENTIFIC NAME               | COMMON NAME                      | STATE <sup>1</sup> STATUS | FEDERAL <sup>2</sup> STATUS |
|-------------------------------|----------------------------------|---------------------------|-----------------------------|
| FISH (Cont.)                  |                                  |                           |                             |
| Platygobio gracilis           | Flathead Chub                    | Endangered                |                             |
| Scaphirhynchus albus          | Pallid Sturgeon                  | Endangered                | Endangered                  |
| Scaphirhynchus                | Shovelnose Sturgeon              |                           | Threatened/SA               |
| platorynchus                  |                                  |                           |                             |
| Umbra limi                    | Central Mudminnow                | Endangered                |                             |
|                               |                                  |                           |                             |
| AMPHIBIANS                    |                                  |                           |                             |
| Cryptobranchus a.             | Eastern Hellbender               | Endangered                |                             |
| alleganiensis                 |                                  |                           |                             |
| Cryptobranchus a. bishopi     | Ozark Hellbender                 | Endangered                | Endangered                  |
|                               |                                  |                           |                             |
| REPTILES                      |                                  |                           |                             |
| Deirochelys reticularia       | Western Chicken Turtle           | Endangered                |                             |
| miaria                        |                                  |                           |                             |
| Emydoidea blandingii          | Blanding's Turtle                | Endangered                |                             |
| Kinosternon flavescens        | Yellow Mud Turtle                | Endangered                |                             |
| Nerodia cyclopion             | Mississippi Green                | Endangered                |                             |
|                               | Watersnake <sup>3</sup>          | _                         |                             |
| Sistrurus catenatus           | Eastern Massasauga <sup>3</sup>  | Endangered                | Threatened                  |
| Sistrurus tergeminus          | Prairie Massasauga               | Endangered                |                             |
| tergeminus                    |                                  |                           |                             |
|                               |                                  |                           |                             |
| BIRDS                         |                                  |                           |                             |
| Botaurus lentiginosus         | American Bittern                 | Endangered                |                             |
| Circus hudsonius              | Northern Harrier                 | Endangered                |                             |
| Egretta thula                 | Snowy Egret                      | Endangered                |                             |
| Falco peregrinus              | Peregrine Falcon                 | Endangered                |                             |
| Limnothlypis swainsonii       | Swainson's Warbler               | Endangered                |                             |
| Peacaea aestivalis            | Bachman's Sparrow                | Endangered                |                             |
| Rallus elegans                | King Rail                        | Endangered                |                             |
| Sterna antillarum athalassos  | Interior Least Tern              | Endangered                | Endangered                  |
| Tympanuchus cupido            | Greater Prairie-chicken          | Endangered                |                             |
| MAMMALS                       |                                  |                           |                             |
| Canis lupus                   | Gray Wolf <sup>3</sup>           |                           | Endangered                  |
| Canis rufus                   | Red Wolf <sup>3</sup>            |                           | Endangered                  |
| Corynorhinus townsendii       | Ozark Big-eared Bat <sup>3</sup> | Endangered                | Endangered                  |
| ingens                        |                                  |                           |                             |
| Lepus californicus            | Black-tailed Jackrabbit          | Endangered                |                             |
| Myotis grisescens             | Gray Myotis                      | Endangered                | Endangered                  |
| Myotis septentrionalis        | Northern Long-eared Myotis       | Endangered                | Threatened                  |
| Myotis sodalis                | Indiana Myotis                   | Endangered                | Endangered                  |
| Spilogale putorius interrupta | Plains Spotted Skunk             | Endangered                |                             |

<sup>&</sup>lt;sup>1</sup> Listed in the Wildlife Code of Missouri, Rule 3 CSR10-4.111 Endangered Species.

Endangered = Any species that is in danger of extinction throughout all or a significant portion of its range.

<u>Threatened</u> = Any species that is likely to become endangered within the foreseeable future.

<u>Candidate</u> = Plants or animals that the U.S. Fish & Wildlife Service is reviewing for possible addition to the list of Endangered and Threatened species.

<u>Proposed</u> = Any species proposed for listing as Threatened or Endangered by the U.S. Fish & Wildlife Service.

Threatened/SA = Any species listed Threatened due to Similarity of Appearance by the U.S. Fish & Wildlife Service.

<sup>&</sup>lt;sup>2</sup>Federally Listed Species under the Endangered Species Act (ESA) of 1973 as Amended:

<sup>&</sup>lt;sup>3</sup>Considered extirpated, historical or accidental occurrence in Missouri.

## **SPECIES AND STATUSES**

| COLEMEDIC NA ME                                  | COMMONINAME          | CD A NIIZ     | CD A NIZ     | STATE         | FEDERAL       |
|--|----------------------|---------------|--------------|---------------|---------------|
| <u>SCIENTIFIC NAME</u><br>LICHENS                | <u>COMMON NAME</u>   | <u>SRANK</u>  | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Cladonia cervicornis ssp. verticillata           | A Lichen             | S?            | G5T5         |               |               |
| Cladonia leporina                                | A Lichen             | S2            | G4G5         |               |               |
| Coenogonium missouriense                         | Missouri Cave Lichen | SH            | GH           |               |               |
| Collema nigrescens                               | A Lichen             | $\mathbf{SU}$ | G5?          |               |               |
| Dendriscocaulon intricatulum                     | A Lichen             | S?            | GUQ          |               |               |
| Dermatocarpon moulinsii                          | A Lichen             | <b>S</b> 1    | GNR          |               |               |
| Dibaeis absoluta                                 | A Lichen             | <b>S</b> 1    | G4           |               |               |
| Flavoparmelia rutidota                           | A Lichen             | S?            | G4G5         |               |               |
| Graphina sophisticascens                         | A Lichen             | SH            | GNR          |               |               |
| Imshaugia aleurites                              | A Lichen             | S?            | G5           |               |               |
| Lecidea lurida                                   | A Lichen             | SU            | GNR          |               |               |
| Pannaria rubiginosa                              | A Lichen             | S1            | G4G5         |               |               |
| Parmelia squarrosa                               | A Lichen             | S?            | G5           |               |               |
| Parmelina horrescens                             | A Lichen             | S1            | G5           |               |               |
| Parmotrema hypoleucinum                          | A Lichen             | S1            | G4G5         |               |               |
| Parmotrema madagascariaceum                      | A Lichen             | S?            | G3G5         |               |               |
| Parmotrema tinctorum                             | A Lichen             | S2            | G5?          |               |               |
| Pseudocyphellaria aurata                         | A Lichen             | S1            | G3G5         |               |               |
| Psora icterica                                   | A Lichen             | S1            | G5?          |               |               |
| Pycnothelia papillaria                           | A Lichen             | S1            | G3G5         |               |               |
| Ramalina intermedia                              | A Lichen             | S1            | G5           |               |               |
| Rimelia subisidiosa                              | A Lichen             | S1            | G4G5         |               |               |
| Tuckermannopsis ciliaris                         | A Lichen             | S?            | G3G5         |               |               |
| Usnea angulata                                   | A Lichen             | S1            | G3G5         |               |               |
| Xanthoparmelia australasica                      | A Lichen             | S1            | G5           |               |               |
| Total Lichen Records: 25                         |                      |               |              |               |               |
|  | <b>ADT</b> G         |               |              |               |               |
| LIVERWORTS AND HORNW                             |                      | C1            | C49          |               |               |
| Aneura maxima                                    | A Liverwort          | S1            | G4?          |               |               |
| Anthoceros agrestis                              | A Hornwort           | S2            | G4G5         |               |               |
| Bazzania trilobata var.                          | A Liverwort          | S1            | G5TUQ        |               |               |
| depauperata<br>Bazzania trilobata var. trilobata | A Liverwort          | <b>S</b> 1    | G5TUQ        |               |               |
| Calypogeia muelleriana ssp.                      | A Liverwort          | SU            | G5T5         |               |               |
| muelleriana                                      |                      |               |              |               |               |
| Calypogeia sullivantii                           | A Leafy Liverwort    | <b>S</b> 1    | G4           |               |               |
| Frullania kunzei                                 | A Liverwort          | <b>S</b> 1    | G4           |               |               |
| Fuscocephaloziopsis catenulata                   | A Liverwort          | S2            | G5           |               |               |
| Fuscocephaloziopsis connivens                    | A Liverwort          | <b>S</b> 1    | G5           |               |               |
| Jungermannia leiantha                            | A Liverwort          | <b>S</b> 1    | G5           |               |               |
| Kurzia setacea                                   | A Liverwort          | S1            | G5           |               |               |
| Kurzia sylvatica                                 | A Liverwort          | S1            | G5           |               |               |
| Leucolejeunea unciloba                           | A Liverwort          | <b>S</b> 1    | G4G5         |               |               |
| Marchantia polymorpha ssp. polymorpha            | A Liverwort          | S1            | GNR          |               |               |

| SCEINTIFIC NAME  |                              |               |              |              | STATE | FEDERAL |
|--|------------------------------|---------------|--------------|--------------|-------|---------|
| Marsupella sullivantii         A Liverwort         \$1         65           Metzgeria conjugata         A Liverwort         \$1         G5           Metzgeria furcata         A Liverwort         \$2         G5           Nordothylas orbicularis         A Hornwort         \$1         G3?           Nowellia curvifolia         A Liverwort         \$2         G5           Odontoschisma denudatum         A Liverwort         \$1         G5           Oxymitra incrassata         A Liverwort         \$1         GNR           Phaeoceros oreganus         A Hornwort         \$1         GNR           Phaeoceros oreganus         A Hornwort         \$1         GNR           Phaeoceros oreganus         A Hornwort         \$1         GNR           Plaeochasma wrightii         A Liverwort         \$1         G3           Plaeochasma wrightii         A Liverwort         \$1         G5           Rectolejeunea maxonii         A Liverwort         \$1         G4           Ricciada australis         A Liverwort         \$1         G5           Riccardia palmata         A Liverwort         \$1         G5           Riccia molifida         A Liverwort         \$1         G5           Riccia bifurca </th <th></th> <th></th> <th><b>SRANK</b></th> <th><b>GRANK</b></th> <th></th> <th></th>   |                              |               | <b>SRANK</b> | <b>GRANK</b> |       |         |
| Metzgeria furcata         A Liverwort         \$2         \$5           Metzgeria furcata         A Liverwort         \$2         \$65           Nardia lescurii         A Liverwort         \$1         \$65           Nowellia curvifolia         A Liverwort         \$2         \$65           Odontoschisma denudatum         A Liverwort         \$1         \$G5           Okymitta incrassata         A Liverwort         \$1         \$GNR           Phaeoceros oreganus         A Hornwort         \$1         \$G3           Plagiochasma wrightii         A Liverwort         \$1         \$G5           Riddia ustralis         A Liverwort         \$1         \$G5           Raddia australis         A Liverwort         \$1         \$G5           Riccia laustrali         A Liverwort         \$1         \$G5           Riccia austini         A Liverwort         \$1         \$G5           Riccia infortii  | LIVERWORTS AND HORNW         | ORTS (Cont.)  |              |              |       |         |
| Metzgeria furcata  | -                            |               |              |              |       |         |
| Natolia lescurii   | Metzgeria conjugata          | A Liverwort   | S1           | G5           |       |         |
| Notothylas orbicularis         A Hornwort         \$2         G5           Nowellia curvifolia         A Liverwort         \$2         G5           Odontoschisma denudatum         A Liverwort         \$1         G5           Oxymitra incrassata         A Liverwort         \$1         GNR           Phacoceros oreganus         A Hornwort         \$1         GNRQ           Plagiochasma wrightii         A Liverwort         \$1         G5           Pullidium pulcherrimum         A Liverwort         \$8         G3G4           Rectolejeune maxonii         A Liverwort         \$1         G5           Radda australis         A Liverwort         \$1         G5           Rectolejeune maxonii         A Liverwort         \$1         G5           Riccardia multifida         A Liverwort         \$1         G5           Riccardia palmata         A Liverwort         \$1         G5           Riccia bifurea         A Liverwort         \$2         G5           Riccia abifurea         A Liverwort         \$1         G5           Riccia fostii         A Liverwort         \$1         G5           Riccia fostii         A Liverwort         \$1         G2           Riccia nigrella  |                              | A Liverwort   | S2           | G5           |       |         |
| Nowellia curvifolia  | Nardia lescurii              | A Liverwort   | <b>S</b> 1   | G3?          |       |         |
| Odontoschisma denudatum         A Liverwort         \$1         G5           Oxymitra incrassata         A Liverwort         \$1         GNR           Phaeocerso oreganus         A Hormwort         \$1         GNRQ           Plagiochasma wrightii         A Liverwort         \$1         G5           Radula australis         A Liverwort         \$1         G5           Radula australis         A Liverwort         \$1         G4           Rectolejeunea maxonii         A Liverwort         \$1         G5           Riccardia multifida         A Liverwort         \$1         G5           Riccardia palmata         A Liverwort         \$2         G5           Riccia austini         A Liverwort         \$2         G5           Riccia bifurea         A Liverwort         \$1         G5           Riccia cavernosa         A Liverwort         \$1         G5           Riccia cavernosa         A Liverwort         \$1         G5           Riccia rostii         A Liverwort         \$1         G5           Riccia fostii         A Liverwort         \$1         G5           Riccia macallisteri         A Liverwort         \$1         G2G4           Riccia nigrella         A Liverwort <td></td> <td>A Hornwort</td> <td><b>S</b>1</td> <td>G5</td> <td></td> <td></td>   |                              | A Hornwort    | <b>S</b> 1   | G5           |       |         |
| Oxymitra incrassata         A Liverwort         \$1         GNRQ           Phaeoceros oreganus         A Hormwort         \$1         GNRQ           Phagiochasma wrightii         A Liverwort         \$H         G3?           Pitlidium pulcherrimum         A Liverwort         \$1         G5           Radula australis         A Liverwort         \$1         G4           Rectolejeunea maxonii         A Liverwort         \$1         G5           Riccardia palmata         A Liverwort         \$1         G5           Riccia austini         A Liverwort         \$2         G5           Riccia austini         A Liverwort         \$1         G5           Riccia cavernosa         A Liverwort         \$1         G5           Riccia cavernosa         A Liverwort         \$1         G5           Riccia corystallina         A Liverwort         \$1         G5           Riccia prystallina         A Liverwort         \$1         G5           Riccia parallisteri         A Liverwort         \$1         G5           Riccia macallisteri         A Liverwort         \$1         G5           Riccia sorocarpa         A Liverwort         \$1         G5           Riccia sorocarpa         A L   | Nowellia curvifolia          | A Liverwort   | S2           | G5           |       |         |
| Phaeoceros oreganus  | Odontoschisma denudatum      | A Liverwort   | S1           | G5           |       |         |
| Plagiochasma wrightii  | Oxymitra incrassata          | A Liverwort   | S1           | GNR          |       |         |
| Ptilidium pulcherrimum   | Phaeoceros oreganus          | A Hornwort    | S1           | GNRQ         |       |         |
| Radula australis A Liverwort SR G3G4 Rectolejeunea maxonii A Liverwort S1 G4 Riccardia multifida A Liverwort S1 G5 Riccardia palmata A Liverwort S1 G5 Riccia austini A Liverwort S2 G5 Riccia austini A Liverwort S2 G5 Riccia cavernosa A Liverwort SU G5 Riccia cavernosa A Liverwort SU G5 Riccia crystallina A Liverwort SU G4G5 Riccia frostii A Liverwort SU G4G5 Riccia frostii A Liverwort S1 G5 Riccia intra A Liverwort S1 G5 Riccia macallisteri A Liverwort S1 G2G4 Riccia macallisteri A Liverwort S1 G2G4 Riccia macallisteri A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SU G4G5 Riccia sorocarpa A Liverwort SU G4G5 Riccia sorocarpa A Liverwort S1 G5 Riccia sorocarpa S1 G4G5 Riccia soroc | Plagiochasma wrightii        | A Liverwort   | SH           | G3?          |       |         |
| Rectolejeunea maxonii A Liverwort S1 G5 Riccardia multifida A Liverwort S1 G5 Riccardia multifida A Liverwort S1 G5 Riccia austini A Liverwort S2 G5 Riccia austini A Liverwort S2 G5 Riccia bifurca A Liverwort SU G5 Riccia cavernosa A Liverwort SU G5 Riccia crystallina A Liverwort SU G4G5 Riccia crystallina A Liverwort S1 G5 Riccia frostii A Liverwort S1 G5 Riccia frostii A Liverwort S1 G5 Riccia macallisteri A Liverwort S1 G2 G5 Riccia macallisteri A Liverwort S1 G2G4 Riccia macallisteri A Liverwort S1 G2G4 Riccia ozarkiana A Liverwort S1 G4G5 Riccia ozarkiana A Liverwort S1 G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia solivanti A Liverwort S1 G5 Riccia sullivanti A Moss S1 G5 Riccia sullivanti A Moss S1 G4G5 Riccia sullivanti A Moss S1 G4G5 Riccia sullivanti A Moss S1 G4G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S1 G4G5 Artrichum crispulum A Moss S1 G5 Brachelythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Brachithia exana A Moss S1 G5 Riccia G5 Campylium protensum A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | Ptilidium pulcherrimum       | A Liverwort   | S1           | G5           |       |         |
| Riccardia multifida A Liverwort S1 G5 Riccardia palmata A Liverwort S1 G5 Riccia austini A Liverwort S2 G5 Riccia austini A Liverwort SU G5 Riccia cavernosa A Liverwort SU G5 Riccia crystallina A Liverwort SU G4G5 Riccia crystallina A Liverwort SU G4G5 Riccia frostii A Liverwort SI G5 Riccia frostii A Liverwort SI G5 Riccia macallisteri A Liverwort SI G2G4 Riccia macallisteri A Liverwort SI G2G4 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia ozarkiana A Liverwort SH G1G2 Riccia sullivantii A Liverwort SI G5 Riccia ingella A Moss SI G4G5 Riccia ingella subulatum A Moss SI G5 Riccia ingella subulatum A Moss SI G4G5 Riccia ingella subulatum A Moss SI G5 Ricaliergopala cuspidata A Moss SI G5 Riccia ingella | Radula australis             | A Liverwort   | SR           | G3G4         |       |         |
| Riccardia palmata A Liverwort S1 G5 Riccia austini A Liverwort S2 G5 Riccia cavernosa A Liverwort S1 G5 Riccia cavernosa A Liverwort S1 G5 Riccia crystallina A Liverwort S1 G5 Riccia crystallina A Liverwort S1 G5 Riccia frostii A Liverwort S1 G5 Riccia frostii A Liverwort S1 G2 G4 Riccia hirta A Liverwort S1 G2G4 Riccia nigrella A Liverwort S1 G2G4 Riccia nigrella A Liverwort S1 G2G4 Riccia ozarkiana A Liverwort S1 G3G4 Riccia ozarkiana A Liverwort S1 G5 Riccia sorocarpa A Liverwort S1 G5 Riccia sorocarpa A Liverwort S1 G5 Riccia sorotarpa A Liverwort S1 G5 Riccia ozarkiana A Moss S1 G4G5 Riccia ozarkiana A Moss S1 G4G5 Riccia ozarkiana A Liverwort S1 G5 Riccia ozarkiana A Liverwort S1 G5 Riccia ozarkiana A Liverwort S1 G5 Riccia ozarkiana A Liverwort S1 G2G4 Riccia ozarkiana A Li | Rectolejeunea maxonii        | A Liverwort   | <b>S</b> 1   | G4           |       |         |
| Riccia austini A Liverwort SU G5 Riccia bifurca A Liverwort SU G5 Riccia cavernosa A Liverwort SU G5 Riccia crystallina A Liverwort SU G4G5 Riccia crystallina A Liverwort SU G4G5 Riccia frostii A Liverwort SU G5 Riccia hirta A Liverwort S1 G5 Riccia macallisteri A Liverwort S1 G2G4 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sollivantii A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Arrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Brachythecium salebrosum var. A Moss S1 G5 Brachythecium salebrosum var. A Moss S1 G5 Brachythecium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | Riccardia multifida          | A Liverwort   | <b>S</b> 1   | G5           |       |         |
| Riccia austini A Liverwort SU G5 Riccia bifurca A Liverwort SU G5 Riccia cavernosa A Liverwort SU G5 Riccia crystallina A Liverwort SU G4G5 Riccia crystallina A Liverwort SU G4G5 Riccia frostii A Liverwort SU G5 Riccia hirta A Liverwort S1 G5 Riccia macallisteri A Liverwort S1 G2G4 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sollivantii A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Arrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Brachythecium salebrosum var. A Moss S1 G5 Brachythecium salebrosum var. A Moss S1 G5 Brachythecium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | Riccardia palmata            | A Liverwort   | S1           | G5           |       |         |
| Riccia cavernosa A Liverwort SU G4C5 Riccia crystallina A Liverwort SU G4C5 Riccia frostii A Liverwort S1 G5 Riccia hirta A Liverwort S2 G5 Riccia macallisteri A Liverwort S1 G2G4 Riccia nigrella A Liverwort S1 G2G4 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5 Anomobryum julaceum A Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   | =                            | A Liverwort   | S2           | G5           |       |         |
| Riccia cavernosa A Liverwort SU G4C5 Riccia crystallina A Liverwort SU G4C5 Riccia frostii A Liverwort S1 G5 Riccia hirta A Liverwort S2 G5 Riccia macallisteri A Liverwort S1 G2G4 Riccia nigrella A Liverwort S1 G2G4 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5 Anomobryum julaceum A Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   | Riccia bifurca               | A Liverwort   | SU           | G5           |       |         |
| Riccia frostii A Liverwort S2 G5 Riccia hirta A Liverwort S2 G5 Riccia hirta A Liverwort S1 G2G4 Riccia macallisteri A Liverwort S1 G2G4 Riccia ozarkiana A Liverwort SW G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artichum crispulum A Moss S1 G4G5 Atrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | Riccia cavernosa             | A Liverwort   | S1           | G5           |       |         |
| Riccia frostii A Liverwort S2 G5 Riccia hirta A Liverwort S2 G5 Riccia hirta A Liverwort S1 G2G4 Riccia macallisteri A Liverwort S1 G2G4 Riccia ozarkiana A Liverwort SW G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artichum crispulum A Moss S1 G4G5 Atrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | Riccia crystallina           | A Liverwort   | SU           | G4G5         |       |         |
| Riccia hirta A Liverwort S1 G2G4 Riccia macallisteri A Liverwort S1 G2G4 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S1 G4G5 Atrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   | <u>•</u>                     | A Liverwort   |              | G5           |       |         |
| Riccia macallisteri A Liverwort SU G4G5 Riccia nigrella A Liverwort SU G4G5 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S2 G4Q Schistochilopsis incisa A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Aromobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Bryoxiphium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S1 G5 Caffic Campylium protensum A Moss S1 G5 Campylium protensum A Moss S1 G5 Caffic Campylium protensum A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   |                              | A Liverwort   |              |              |       |         |
| Riccia nigrella A Liverwort SH G1G2 Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S7 G4Q Schistochilopsis incisa A Liverwort S1 G5 Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   |                              |               |              |              |       |         |
| Riccia ozarkiana A Liverwort SH G1G2 Riccia sorocarpa A Liverwort S1 G5 Riccia sullivantii A Liverwort S? G4Q Schistochilopsis incisa A Liverwort S1 G5  Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5  Atrichum crispum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  |                              |               |              |              |       |         |
| Riccia sorocarpa Riccia sullivantii A Liverwort S? G4Q Schistochilopsis incisa A Liverwort S1 G5  Total Liverwort and Hornwort Records: 41   MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR  Anacamptodon splachnoides Knothole Moss S1 G3G5  Anomobryum julaceum A Moss S1 G4G5  Archidium alternifolium A Moss S1 G4G5  Atrichum crispulum A Moss S1 G5  Atrichum crispulum A Moss S1 G5  Atrichum crispum A Moss S1 G5  Brachelyma subulatum A Moss S1 G4G5  Brachythecium campestre A Moss S1 G4G5  Brachythecium salebrosum var. salebrosum Bruchia texana A Moss S1 G5  Bryoxiphium norvegicum Sword Moss S1 G5  Campylium protensum A Moss S1 G5  Campylium protensum A Moss S1 G5  Campylium protensum A Moss S2 G5T3T5  | _                            |               |              |              |       |         |
| Riccia sullivantii A Liverwort S? G4Q Schistochilopsis incisa A Liverwort S1 G5  Total Liverwort and Hornwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5TNR Salebrosum Bruchia texana A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S1 G5 Cafford G5 Cafford G5C Cafford G5C Cafford G5C CAGG5 CA |                              |               |              |              |       |         |
| Schistochilopsis incisa A Liverwort Records: 41  MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum crispulum A Moss S1 G5 Brachelyma subulatum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G5TNR Salebrosum Bruchia texana A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | =                            |               |              |              |       |         |
| MOSSES  Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Artrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum crispum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5 Bryphiia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S2 G5T3T5   |                              |               |              | _            |       |         |
| MOSSESAcaulon muticum var. muticumA Moss\$1\$G4G5TNRAnacamptodon splachnoidesKnothole Moss\$1\$G3G5Anomobryum julaceumA Moss\$1\$G4G5Archidium alternifoliumA Moss\$1\$G4G5Atrichum crispulumA Moss\$2\$GNRAtrichum crispumA Moss\$1\$G5Atrichum cylindricumA Moss\$1\$G5Brachelyma subulatumA Moss\$1\$G4G5Brachythecium campestreA Moss\$1\$G4G5QBrachythecium salebrosum var.A Moss\$1\$G5TNRsalebrosum\$1\$G5TNRBruchia texanaA Moss\$1\$G5Bryoxiphium norvegicum\$word Moss\$1\$G5Calliergonella cuspidataA Moss\$1\$G5Campylium protensumA Moss\$2\$G5T3T5   | _                            |               |              |              |       |         |
| Acaulon muticum var. muticum A Moss S1 G4G5TNR Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. S1 G4G5 Brachythecium salebrosum var. S2 GNR A Moss S1 G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. S2 G5TNR S3lebrosum Bruchia texana A Moss S1 G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Calliergonella cuspidata A Moss S2 G5T3T5   |                              |               |              |              |       |         |
| Anacamptodon splachnoides Knothole Moss S1 G3G5 Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum crispum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5Q Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | MOSSES                       |               |              |              |       |         |
| Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss S1 G4G5Q Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S2 G5T3T5   | Acaulon muticum var. muticum | A Moss        | <b>S</b> 1   | G4G5TNR      |       |         |
| Anomobryum julaceum A Moss S1 G4G5 Archidium alternifolium A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. Salebrosum Bruchia texana A Moss S1 G3G5 Brypnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   | Anacamptodon splachnoides    | Knothole Moss | S1           | G3G5         |       |         |
| Archidium alternifolium A Moss S1 G4G5 Atrichum crispulum A Moss S2 GNR Atrichum crispulum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5 Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S2 G5T3T5  |                              | A Moss        | S1           | G4G5         |       |         |
| Atrichum crispum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5Q Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Calliergonella cuspidata A Moss S2 G5T3T5  |                              | A Moss        | S1           | G4G5         |       |         |
| Atrichum crispum A Moss S1 G5 Atrichum cylindricum A Moss S1 G5 Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5Q Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5 Calliergonella cuspidata A Moss S2 G5T3T5  | Atrichum crispulum           | A Moss        | S2           | GNR          |       |         |
| Atrichum cylindricum A Moss S1 G5  Brachelyma subulatum A Moss S1 G4G5  Brachythecium campestre A Moss S1 G4G5Q  Brachythecium salebrosum var. A Moss SU G5TNR  salebrosum  Bruchia texana A Moss SU G3G5  Bryhnia novae-angliae A Moss S1 G5  Bryoxiphium norvegicum Sword Moss S1 G5?  Calliergonella cuspidata A Moss S2 G5T3T5   | -                            |               |              | G5           |       |         |
| Brachelyma subulatum A Moss S1 G4G5 Brachythecium campestre A Moss S1 G4G5Q Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S2 G5T3T5   |                              | A Moss        | S1           | G5           |       |         |
| Brachythecium campestre A Moss S1 G4G5Q Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  |                              |               |              |              |       |         |
| Brachythecium salebrosum var. A Moss SU G5TNR salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | •                            |               |              |              |       |         |
| Salebrosum Bruchia texana A Moss SU G3G5 Bryhnia novae-angliae A Moss S1 G5 Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  |                              |               |              | -            |       |         |
| Bryhnia novae-angliaeA MossS1G5Bryoxiphium norvegicumSword MossS1G5?Calliergonella cuspidataA MossS1G5Campylium protensumA MossS2G5T3T5  | •                            | 1111000       | 20           | 35 11 (11    |       |         |
| Bryoxiphium norvegicum Sword Moss S1 G5? Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5  | Bruchia texana               | A Moss        | SU           | G3G5         |       |         |
| Calliergonella cuspidata A Moss S1 G5 Campylium protensum A Moss S2 G5T3T5   | Bryhnia novae-angliae        | A Moss        | S1           | G5           |       |         |
| Campylium protensum A Moss S2 G5T3T5   | Bryoxiphium norvegicum       | Sword Moss    | <b>S</b> 1   | G5?          |       |         |
| Campylium protensum A Moss S2 G5T3T5   | Calliergonella cuspidata     | A Moss        | S1           | G5           |       |         |
| Campylopodiella stenocarpa A Moss S1 G5  |                              | A Moss        | S2           | G5T3T5       |       |         |
|  | Campylopodiella stenocarpa   | A Moss        | <b>S</b> 1   | G5           |       |         |

|                                       | G02-5-503-3-1-5-       | G= 1.27=     | G= 1.575     | STATE         | FEDERAL       |
|---------------------------------------|------------------------|--------------|--------------|---------------|---------------|
| SCIENTIFIC NAME MOSSES (Cont.)        | COMMON NAME            | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Campylopus tallulensis                | A Moss                 | S2           | G4           |               |               |
| Codriophorus aciculare                | A Moss                 | S2<br>S1     | G5           |               |               |
| Dichelyma capillaceum                 | A Moss                 | S1           | G5           |               |               |
| Dicranella rufescens                  |                        | S1<br>S1     | G5?          |               |               |
|                                       | A Moss                 |              |              |               |               |
| Dicranum polysetum                    | A Moss                 | S1           | G5           |               |               |
| Didymodon revolutus                   | A Moss                 | S1           | G4           |               |               |
| Didymodon rigidulus var.              | A Moss                 | <b>S</b> 1   | G5T4?        |               |               |
| rigidulus<br>Ditrichum rhynchostegium | A Moss                 | S1           | G3G5         |               |               |
| Drepanocladus aduncus                 | A Moss                 | SU           | G5 G5        |               |               |
| Drepanocladus polygamus               | A Moss                 | S1           | G5           |               |               |
| Encalypta procera                     | Extinguisher Moss      | S1           | G5           |               |               |
| Entodon brevisetus                    | A Moss                 | S1           | G3<br>G4?    |               |               |
|                                       | A Moss                 | SU           | G4?<br>G4T3? |               |               |
| Ephemerum crassinervium var. texanum  | A MOSS                 | 30           | G415?        |               |               |
| Ephemerum serratum                    | A Moss                 | S1           | G4           |               |               |
| Fissidens exilis                      | Small Pocket Moss      | S2           | G3G4         |               |               |
| Fissidens hallianus                   | A Moss                 | S2           | GNRQ         |               |               |
| Forsstroemia producta                 | A Moss                 | S1           | G5?          |               |               |
| Funaria americana                     | A Moss                 | SU           | G3?          |               |               |
| Gemmabryum klinggraeffii              | A Moss                 | S1           | G4G5         |               |               |
| Gemmabryum ruderale                   | A Moss                 | S2           | G3G5         |               |               |
| Gemmabryum subapiculatum              | A Moss                 | SX           | G5?          |               |               |
| Grimmia olneyi                        | A Moss                 | S2           | G3G5         |               |               |
| Grimmia plagiopodia                   | A Moss                 | S1           | G4G5         |               |               |
| Gymnostomum calcareum                 | A Moss                 | SU           | G5?          |               |               |
| Herzogiella striatella                | A Moss                 | SU           | G4G5         |               |               |
| Homaliadelphus sharpii                | Sharp's Homaliadelphus | <b>S</b> 1   | G3?          |               |               |
| Hypnum cupressiforme var. filiforme   | A Moss                 | S1           | G5TNR        |               |               |
| Hypnum lindbergii                     | Lindberg's Hypnum Moss | SU           | G5           |               |               |
| Hypnum pallescens                     | A Moss                 | S1           | G5           |               |               |
| Hypnum pratense                       | A Moss                 | S1           | G5           |               |               |
| Imbribryum miniatum                   | A Moss                 | S1           | G4G5         |               |               |
| Isopterygiopsis muelleriana           | A Moss                 | S1           | G5           |               |               |
| Jaffueliobryum raui                   | A Moss                 | S2           | G4?          |               |               |
| Jaffueliobryum wrightii               | A Moss                 | S1           | G4G5         |               |               |
| Leskea polycarpa                      | A Moss                 | SU           | G5           |               |               |
| Micromitrium megalosporum             | A Moss                 | S1S2         | G3<br>G4     |               |               |
| Micromitrium synoicum                 | A Moss                 | SU           | G4<br>G4     |               |               |
| Micromitrium tenerum                  | A Moss                 | S1           | G4<br>G4G5   |               |               |
| Mnium hornum                          | A Moss                 | S1           | G5           |               |               |
| Mnium thomsonii                       | A Moss                 | S?           | G5           |               |               |
|                                       |                        | S2           | G5           |               |               |
| Myurella sibirica<br>Neckera besseri  | A Moss<br>A Moss       | S2<br>S1     | G3<br>G4G5   |               |               |
| Orthotrichum anomalum                 | A Moss                 | S?           | G4G3<br>G5   |               |               |
|                                       |                        | S?<br>S2     | G5           |               |               |
| Orthotrichum diaphanum                | A Moss<br>A Moss       | S2<br>S1     | G5<br>G5T5   |               |               |
| Orthotrichum elegans                  | U IMOSS                | 91           | 0513         |               |               |

| SCIENTIFIC NAME                              | COMMON NAME         | SRANK         | <u>GRANK</u> | STATE<br>STATUS | FEDERAL<br>STATUS |
|--|---------------------|---------------|--------------|-----------------|-------------------|
| MOSSES (Cont.)                               | COMMONTANIE         | <u> </u>      | GRATTI       | BINICS          | BIMICS            |
| Orthotrichum lescurii                        | A Moss              | <b>S</b> 1    | GNR          |                 |                   |
| Physcomitrium collenchymatum                 | A Moss              | S1            | G2G4         |                 |                   |
| Physcomitrium hookeri                        | A Moss              | SU            | G2G4         |                 |                   |
| Plagiomnium medium                           | A Moss              | SU            | G5           |                 |                   |
| Plagiothecium denticulatum                   | A Moss              | S1            | G5           |                 |                   |
| Platylomella lescurii                        | A Moss              | S2            | G5           |                 |                   |
| Pleuridium acuminatum                        | A Moss              | S2            | G3G5         |                 |                   |
| Pleuridium sullivantii                       | A Moss              | S1            | G3G5         |                 |                   |
| Pohlia annotina                              | A Moss              | S2            | G4G5         |                 |                   |
| Polytrichastrum formosum var.<br>densifolium | A Moss              | S1            | G5TNR        |                 |                   |
| Pseudocampylium radicale                     | A Moss              | <b>S</b> 1    | G3G5         |                 |                   |
| Pseudotaxiphyllum<br>distichaceum            | A Moss              | S1            | G4G5         |                 |                   |
| Ptychomitrium serratum                       | A Moss              | S1            | G4?          |                 |                   |
| Ptychomitrium sinense                        | A Moss              | <b>S</b> 1    | G4G5         |                 |                   |
| Ptychostomum cernuum                         | A Moss              | <b>S</b> 1    | G3G5         |                 |                   |
| Ptychostomum cyclophyllum                    | A Moss              | S?            | G4G5         |                 |                   |
| Ptychostomum pallescens                      | A Moss              | $\mathbf{SU}$ | G5           |                 |                   |
| Ptychostomum pendulum                        | A Moss              | <b>S</b> 1    | G5           |                 |                   |
| Pylaisia intricata                           | A Moss              | SU            | G4           |                 |                   |
| Pylaisiadelpha tenuirostris                  | A Moss              | S2            | G5?          |                 |                   |
| Pyramidula tetragona                         | A Moss              | <b>S</b> 1    | G3G5         |                 |                   |
| Rhabdoweisia crispata                        | A Moss              | <b>S</b> 1    | G5           |                 |                   |
| Rhytidium rugosum                            | Golden Glade-moss   | S1            | G5           |                 |                   |
| Rosulabryum flaccidum                        | A Moss              | S2            | GNR          |                 |                   |
| Schistidium liliputanum                      | A Moss              | S1            | GNR          |                 |                   |
| Seligeria calcarea                           | A Moss              | S?            | G4?          |                 |                   |
| Seligeria donniana                           | A Moss              | S1            | G4G5         |                 |                   |
| Seligeria pusilla                            | A Moss              | S1            | G3G5         |                 |                   |
| Sematophyllum marylandicum                   | A Moss              | S1            | G5           |                 |                   |
| Sphagnum affine                              | Sphagnum            | <b>S</b> 1    | G5           |                 |                   |
| Sphagnum angustifolium                       | Narrowleaf Peatmoss | S1            | G5           |                 |                   |
| Sphagnum bartlettianum                       | Sphagnum            | <b>S</b> 1    | G4G5         |                 |                   |
| Sphagnum capillifolium                       | Northern Peatmoss   | S2            | G5           |                 |                   |
| Sphagnum cuspidatum                          | Sphagnum            | <b>S</b> 1    | G5           |                 |                   |
| Sphagnum fallax                              | Sphagnum            | S1            | G5           |                 |                   |
| Sphagnum fimbriatum var.<br>fimbriatum       | Sphagnum            | S1            | G5T5         |                 |                   |
| Sphagnum henryense                           | Sphagnum            | S1            | G4?          |                 |                   |
| Sphagnum inundatum                           | Sphagnum            | <b>S</b> 1    | G4           |                 |                   |
| Sphagnum magellanicum                        | Magellan's Peatmoss | <b>S</b> 1    | G5           |                 |                   |
| Sphagnum platyphyllum                        | Sphagnum            | SU            | G5           |                 |                   |
| Sphagnum recurvum                            | Sphagnum            | <b>S</b> 1    | G5           |                 |                   |
| Sphagnum russowii                            | Sphagnum            | <b>S</b> 1    | G5           |                 |                   |
| Sphagnum subtile                             | Sphagnum            | S2            | G5           |                 |                   |
| Sphagnum trinitense                          | Sphagnum            | <b>S</b> 1    | G4           |                 |                   |
| Syntrichia papillosa                         | A Moss              | S2            | G5           |                 |                   |
|  |                     |               |              |                 |                   |

|   |                               |              |              | STATE  | FEDERAL |
|---|-------------------------------|--------------|--------------|--------|---------|
| SCIENTIFIC NAME                               | <b>COMMON NAME</b>            | <b>SRANK</b> | <b>GRANK</b> | STATUS | STATUS  |
| MOSSES (Cont.)                                |                               |              |              |        |         |
| Syrrhopodon texanus                           | A Moss                        | S2           | G5           |        |         |
| Thamnobryum alleghaniense                     | A Moss                        | S1           | G5?          |        |         |
| Tortella fragilis                             | Fragmented Screw-moss         | SU           | G5           |        |         |
| Tortella tortuosa                             | Twisted Moss                  | SU           | G5           |        |         |
| Trematodon longicollis                        | A Moss                        | S2           | G5           |        |         |
| Trichostomum tenuirostre var. gemmiparum      | A Moss                        | <b>S</b> 1   | G5TU         |        |         |
| Ulota hutchinsiae                             | Hutchins' Ulota Moss          | <b>S</b> 1   | G5           |        |         |
| Weissia phascopsis                            | A Pygmy Moss                  | <b>S</b> 1   | G3G4         |        |         |
| Zygodon apiculatus                            | A Moss                        | S1           | GU           |        |         |
| Total Moss Records: 115                       |                               |              |              |        |         |
|   |                               |              |              |        |         |
| FERNS AND FERN ALLIES                         |                               |              |              |        |         |
| Asplenium bradleyi                            | Bradley's Spleenwort          | SU           | G4           |        |         |
| Asplenium montanum                            | Mountain Spleenwort           | SH           | G5           |        |         |
| Asplenium pinnatifidum                        | Lobed Spleenwort              | SU           | G4           |        |         |
| Asplenium trichomanes ssp.                    | Maidenhair Spleenwort         | SU           | G5T5         |        |         |
| trichomanes                                   | _                             |              |              |        |         |
| Azolla caroliniana                            | Eastern Mosquito Fern         | S1S3         | G5           |        |         |
| Botrychium biternatum                         | Few-lobed Grape Fern          | S1           | G5           |        |         |
| Cheilanthes alabamensis                       | Alabama Lip-fern              | S1           | G4G5         |        |         |
| Cheilanthes tomentosa                         | Woolly Lip-fern               | S1           | G5           |        |         |
| Cystopteris tenuis                            | A Bladderfern                 | <b>S</b> 1   | G5           |        |         |
| Dennstaedtia punctilobula                     | Hay-scented Fern              | S2           | G5           |        |         |
| Dryopteris carthusiana                        | Spinulose Shield Fern         | S2           | G5           |        |         |
| Dryopteris celsa                              | Log Fern                      | S1           | G4           |        |         |
| Dryopteris cristata                           | Crested Fern                  | S1           | G5           |        |         |
| Dryopteris goldiana                           | Goldie's Fern                 | S2           | G4G5         |        |         |
| Dryopteris intermedia                         | Evergreen Woodfern            | S1           | G5           |        |         |
| Huperzia porophila                            | Fir Clubmoss                  | S2           | G4           |        |         |
| Isoetes engelmannii var. engelmannii          | Engelmann's Quillwort         | S1?          | G4TNR        |        |         |
| Lycopodium dendroideum                        | Round-branched Ground<br>Pine | S1           | G5           |        |         |
| Lycopodium tristachyum                        | Ground Cedar                  | S1           | G5           |        |         |
| Matteuccia struthiopteris var.                | Ostrich Fern                  | S2           | G5T5         |        |         |
| pensylvanica<br>Ophioglossum crotalophoroides | Bulbous Adder's-tongue        | SH           | G5           |        |         |
| Ophioglossum petiolatum                       | Stalked Adder's-tongue        | SX           | G5           |        |         |
| Pellaea glabella var.                         | Missouri Cliffbrake           | S1S2         | G5T1T2       |        |         |
| missouriensis                                 |                               |              |              |        |         |
| Pilularia americana                           | American Pillwort             | SU           | G5           |        |         |
| Pteridium aquilinum var.                      | Bracken                       | SU           | G5T5         |        |         |
| pseudocaudatum                                |                               |              |              |        |         |
| Woodsia obtusa ssp. occidentalis              | Blunt-lobe Woodsia            | <b>S</b> 1   | G5T3T4       |        |         |
| Woodwardia areolata                           | Netted Chain Fern             | S2           | G5           |        |         |

**Total Ferns and Fern Allies Records: 27** 

|  |                                     |              |                | STATE         | FEDERAL       |
|--|-------------------------------------|--------------|----------------|---------------|---------------|
| SCIENTIFIC NAME FLOWERING PLANTS         | COMMON NAME                         | <u>SRANK</u> | <u>GRANK</u>   | <u>STATUS</u> | <u>STATUS</u> |
| Acalypha deamii                          | Large Seeded Mercury                | <b>S</b> 1   | G4?            |               |               |
| Aconitum uncinatum                       | Southern Monkshood                  | S1           | G4             |               |               |
| Agalinis auriculata                      | Auriculate False Foxglove           | S3           | G3             |               |               |
| Agalinis heterophylla                    | Prairie False Foxglove              | S1           | G4G5           |               |               |
| Agalinis purpurea                        | Purple False Foxglove               | S2           | G5             |               |               |
| Agalinis viridis                         | Green False Foxglove                | S1           | G4?            |               |               |
| Agastache scrophulariifolia              | Purple Giant-hyssop                 | S1           | G4             |               |               |
| Agrimonia gryposepala                    | Tall Agrimony                       | SU           | G5             |               |               |
| Allium burdickii                         | Wild Leek                           | S2           | G4G5           |               |               |
| Alopecurus aequalis                      | Floating Foxtail Grass              | S2<br>S2     | G5             |               |               |
| Amorpha nitens                           | Shining False Indigo                | S2<br>S1     | G3?            |               |               |
| Amsonia ciliata var. filifolia           | Ciliate Blue Star                   | S2S3         | G5?T4?         |               |               |
| Andropogon hirsutior                     | Bushy Bluestem                      | SU<br>SU     | G5.14.<br>G5T5 |               |               |
| Andropogon inistitor  Anemone cylindrica | Thimbleweed                         | S2           | G5 13          |               |               |
| •  | Wood Anemone                        | S2<br>S1     | G5<br>G5T5     |               |               |
| Anemone quinquefolia var. quinquefolia   | wood Allemone                       | 31           | G313           |               |               |
| Aralia nudicaulis                        | Wild Sarsaparilla                   | S2           | G5             |               |               |
| Aristida adscensionis                    | Sixweeks Three-awn                  | SH           | G5             |               |               |
| Aristida desmantha                       | Curly Three-awn                     | S2           | G5             |               |               |
| Aristida lanosa                          | Woollyleaf Three-awn                | <b>S</b> 1   | G5             |               |               |
| Aristida ramosissima                     | Slender Three-awn                   | SH           | G5             |               |               |
| Aronia melanocarpa                       | Black Chokeberry                    | <b>S</b> 1   | G5             |               |               |
| Artemisia dracunculus                    | A Wormwood                          | SH           | G5             |               |               |
| Asclepias exaltata                       | Poke Milkweed                       | <b>S</b> 1   | G5             |               |               |
| Asclepias meadii                         | Mead's Milkweed                     | S2           | G2             | E             | T             |
| Asclepias speciosa                       | Showy Milkweed                      | SA           | G5             |               |               |
| Astragalus lotiflorus                    | Low Milk Vetch                      | S2           | G5             |               |               |
| Astranthium ciliatum                     | Western Daisy                       | S2           | G5T5           |               |               |
| Baptisia sphaerocarpa                    | Round-fruited Yellow<br>Wild Indigo | SU           | G4G5           |               |               |
| Bartonia paniculata ssp.                 | Screwstem                           | S1           | G5T5           |               |               |
| paniculata<br>Bartonia virginica         | Yellow Bartonia                     | S1           | G5             |               |               |
| Berberis canadensis                      | American Barberry                   | S1           | G3             |               |               |
| Bergia texana                            | Bergia                              | S2           | G5             |               |               |
| Berula erecta var. incisa                | Cut-leaved Water-parsnip            | S1           | G4G5T4T5       |               |               |
| Bidens beckii                            | Water Marigold                      | SU           | G4G51415<br>G5 |               |               |
| Bidens laevis                            | A Beggar's Tick                     | S1           | G5             |               |               |
| Bolboschoenus maritimus ssp.             | Bayonet Grass                       | S1           | G5<br>G5       |               |               |
| paludosus                                | Dayonet Glass                       | 51           | <b>G</b> 3     |               |               |
| Boltonia decurrens                       | Decurrent False Aster               | <b>S</b> 1   | G2G3           | Е             | T             |
| Bouteloua gracilis                       | Blue Grama                          | S1           | G5             |               |               |
| Bouteloua hirsuta var. hirsuta           | Hairy Grama                         | S2           | G5T5           |               |               |
| Bromus latiglumis                        | A Brome                             | S3           | G5             |               |               |
| Buchloe dactyloides                      | Buffalo Grass                       | SH           | G4G5           |               |               |
| Calamagrostis porteri ssp.               | Oferhollow Reed Grass               | S3           | G4T3           |               |               |
| insperata                                | Clemento ii rece Grass              | 55           | 3.13           |               |               |
| Calamagrostis stricta ssp. inexpansa     | Northern Reedgrass                  | S2S3         | G5T5           |               |               |

|  |                        |              |              | <b>STATE</b>  | FEDERAL       |
|--|------------------------|--------------|--------------|---------------|---------------|
| SCIENTIFIC NAME FLOWERING PLANTS (Cont.) | COMMON NAME            | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Calamovilfa longifolia var. longifolia   | Long-leaved Reed Grass | SH           | G5T5         |               |               |
| Callicarpa americana                     | French Mulberry        | <b>S</b> 1   | G5           |               |               |
| Callirhoe bushii                         | Bush's Poppy Mallow    | S2           | G3           |               |               |
| Callirhoe triangulata                    | Clustered Poppy Mallow | SH           | G3           |               |               |
| Callitriche palustris                    | Vernal Water Starwort  | SU           | G5           |               |               |
| Calopogon oklahomensis                   | Grass Pink Orchid      | S2           | G3           |               |               |
| Calopogon tuberosus                      | Grass Pink Orchid      | S2           | G5           |               |               |
| Caltha palustris                         | Marsh Marigold         | S1           | G5           |               |               |
| Campanula aparinoides var.               | Marsh Bellflower       | S1           | G5TNR        |               |               |
| aparinoides                              | Warsh Belliower        | 51           | OJ INK       |               |               |
| Campanula rotundifolia                   | Harebell               | <b>S</b> 1   | G5           |               |               |
| Carex abscondita                         | A Sedge                | <b>S</b> 1   | G4G5         |               |               |
| Carex alata                              | Broadwing Sedge        | S2S3         | G5           |               |               |
| Carex albicans var. australis            | Bellow Beaked Sedge    | S1           | G5T5         |               |               |
| Carex albolutescens                      | Greenish-white Sedge   | S1S2         | G5 15        |               |               |
| Carex aquatilis var. substricta          | A Sedge                | SH           | G5TNR        |               |               |
| Carex atherodes                          | Awned Sedge            | SH           | G5 Truk      |               |               |
| Carex atlantica ssp. atlantica           | A Sedge                | S1           | G5T5         |               |               |
| Carex atlantica ssp. capillacea          | Prickly Bog Sedge      | S1           | G5T5?        |               |               |
| Carex bromoides ssp.                     | A Sedge                | S1<br>S2     | G5T5         |               |               |
| bromoides                                | A Stuge                | 52           | 0313         |               |               |
| Carex buxbaumii                          | Brown Bog Sedge        | S2           | G5           |               |               |
| Carex communis var. communis             | Fibrous-root Sedge     | S2           | G5T5         |               |               |
| Carex comosa                             | Bristly Sedge          | S2           | G5           |               |               |
| Carex conoidea                           | Field Sedge            | S1           | G5           |               |               |
| Carex cumberlandensis                    | A Sedge                | S1           | GNR          |               |               |
| Carex debilis var. debilis               | White-edge Sedge       | S1           | G5T5         |               |               |
| Carex decomposita                        | Epiphytic Sedge        | S3           | G3G4         |               |               |
| Carex echinodes                          | A Sedge                | SH           | G5TNR        |               |               |
| Carex fissa var. fissa                   | A Sedge                | S1           | G4?T3T4      |               |               |
| Carex flaccosperma                       | A Sedge                | S2           | G5.1314      |               |               |
| Carex gigantea                           | Giant Sedge            | S1S2         | G4           |               |               |
| Carex gracillima                         | Graceful Sedge         | S152         | G5           |               |               |
| Carex inops ssp. heliophila              | Sun Sedge              | SU           | G5T5         |               |               |
| Carex joorii                             | Cypress-swamp Sedge    | SH           | G4G5         |               |               |
| Carex lacustris                          | Lake-bank Sedge        | S11<br>S2    | G5           |               |               |
| Carex laxiculmis var. copulata           | A Sedge                | SU SU        | G5T4         |               |               |
| Carex laxiculmis var. laxiculmis         | A Sedge                | SU           | G5T5         |               |               |
| Carex laxiflora var. laxiflora           | A Carex                | S0<br>S1     | G5T5         |               |               |
|  |                        |              |              |               |               |
| Carex longii                             | Greenish-white Sedge   | SH           | G5           |               |               |
| Carex microdonta                         | A Sedge                | S1           | G4           |               |               |
| Carex missouriensis                      | Missouri Sedge         | SU           | G4           |               |               |
| Carex molestiformis                      | A Sedge                | S2           | G4           |               |               |
| Carex oxylepis                           | Sharp-scale Sedge      | S2           | G5?          |               |               |
| Carex prasina                            | Drooping Sedge         | S1           | G4           |               |               |
| Carex reniformis                         | Reniform Sedge         | S1           | G4?          |               |               |
| Carex reznicekii                         | A Sedge                | S2?          | G5           |               |               |

|   |                          |              |              | <b>STATE</b>  | <b>FEDERAL</b> |
|---|--------------------------|--------------|--------------|---------------|----------------|
| SCIENTIFIC NAME<br>FLOWERING PLANTS (Cont.)   | COMMON NAME              | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u>  |
| Carex sartwellii                              | Sartwell's Sedge         | S1           | G5           |               |                |
| Carex scabrata                                | Rough Sedge              | SH           | G5           |               |                |
| Carex socialis                                | A Sedge                  | S2           | G4           |               |                |
| Carex sprengelii                              | Longbeak Sedge           | S2           | G5           |               |                |
| Carex sterilis                                | A Sedge                  | S2<br>S2     | G4G5         |               |                |
| Carex straminea                               | Straw Sedge              | S1           | G5           |               |                |
| Carex sychnocephala                           | A Sedge                  | SH           | G5           |               |                |
| Carex tetanica                                | Rigid Sedge              | S3           | G4G5         |               |                |
| Carex toursa var. rugosperma                  | Shaved Sedge             | S1           | G5T5         |               |                |
| Carex tonsa var. tonsa                        | Shaved Sedge             | SH           | G5T5         |               |                |
| Carex triangularis                            | Triangular Sedge         | S2           | G5 15        |               |                |
| Carex trichocarpa                             | Hairy-fruited Sedge      | S1           | G4           |               |                |
| Carex vesicaria var. monile                   | A Sedge                  | S2?          | G5T4         |               |                |
| Carex willdenowii                             | Willdenow's Sedge        | S2:<br>S1    | G5 14<br>G5  |               |                |
| Carex woodii                                  | A Sedge                  | S1           | G3<br>G4     |               |                |
|   | Sand Hickory             | S2S3         | G5           |               |                |
| Carya pallida Castanea pumila var. ozarkensis | •                        | S2S3<br>S2   | G5<br>G5T3   |               |                |
| 1   | Ozark Chinquapin         | SU           |              |               |                |
| Castanea pumila var. pumila                   | Chinquapin               |              | G5T5?        |               |                |
| Castilleja purpurea var. purpurea             | Purple Paintbrush        | SH           | G5T4?        |               |                |
| Castilleja sessiliflora                       | Downy Painted Cup        | S2           | G5           |               |                |
| Cayaponia quinqueloba                         | A Gourd                  | <b>S</b> 1   | G4           |               |                |
| Centaurea americana                           | American basket flower   | SH           | G5           |               |                |
| Centrosema virginianum                        | Coastal Butterfly-pea    | SH           | G5           |               |                |
| Ceratophyllum echinatum                       | Coontail                 | S1?          | G4           |               |                |
| Chaetopappa asteroides var. asteroides        | Common Leastdaisy        | S2S3         | G5T3T5       |               |                |
| Chasmanthium laxum ssp.                       | Slender Spike Grass      | <b>S</b> 1   | G5           |               |                |
| laxum Chasmanthium laxum ssp.                 | A Spike Grass            | SX           | G5           |               |                |
| sessiliflorum<br>Chelone obliqua              | Rose Turtlehead          | S2           | G4           |               |                |
| Chenopodium berlandieri var.                  |                          | SU           |              |               |                |
| boscianum                                     | Pitseed Goosefoot        | 30           | G5T3T5       |               |                |
| Chenopodium strictum var. glaucophyllum       | A Goosefoot              | SH           | G5TU         |               |                |
| Cicuta maculata var. bolanderi                | Common Water Hemlock     | SU           | G5T3T4       |               |                |
| Cirsium hillii                                | Hill's Thistle           | SU           | G3           |               |                |
| Cirsium undulatum                             | Wavy-leaved Thistle      | <b>S</b> 1   | G5           |               |                |
| Cissus trifoliata                             | Marine Vine              | S2           | G5           |               |                |
| Cladium jamaicense                            | Jamaica Swamp Sawgrass   | <b>S</b> 1   | G5T5         |               |                |
| Clematis fremontii                            | Fremont's Leather Flower | <b>S</b> 3   | G5           |               |                |
| Clematis viorna                               | A Leatherflower          | <b>S</b> 1   | G5           |               |                |
| Cleome serrulata                              | Rocky Mountain Bee       | SH           | G5           |               |                |
|   | Plant                    | ·=           |              |               |                |
| Coeloglossum viride var. virescens            | Long-bracted Orchid      | S1           | G5T5         |               |                |
| Coelorachis cylindrica                        | Joint Grass              | <b>S</b> 1   | G4G5         |               |                |

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| SCIENTIFIC NAME<br>FLOWERING PLANTS (Cont.) | COMMON NAME              | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Coleataenia longifolia ssp. longifolia      | Panicgrass               | SU           | G5T5?        |               |               |
| Conyza canadensis var. pusilla              | Fleabane                 | S1S2         | G5T5         |               |               |
| Corispermum americanum                      | American Bugseed         | SU           | G5?          |               |               |
| Corispermum pallasii                        | A Bugseed                | SH           | G4?          |               |               |
| Corispermum villosum                        | Oriental Tick-seed       | SU           | G4?          |               |               |
| Corydalis aurea ssp. aurea                  | Golden Corydalis         | SU           | G5T5         |               |               |
| Corydalis micrantha ssp.                    | A Corydalis              | S2           | G5T5?        |               |               |
| australis                                   | •                        |              |              |               |               |
| Crataegus berberifolia var.                 | Barberry-leaved          | SU           | GNR          |               |               |
| berberifolia                                | Hawthorn                 | GT T         | C) ID        |               |               |
| Crataegus collina var.<br>lettermanii       | Hillside Hawthorn        | SU           | GNR          |               |               |
| Crataegus collina var. sordida              | Hillside Hawthorn        | SU           | GNR          |               |               |
| Crataegus fecunda                           | St. Clair Hawthorn       | SU           | G3?Q         |               |               |
| Crataegus lanuginosa                        | Woolly Hawthorn          | SU           | G3?Q         |               |               |
| Crataegus macrosperma                       | Eastern Hawthorn         | SU           | G5           |               |               |
| Crataegus margarettae var.<br>brownii       | Margaret's Hawthorn      | SU           | GNR          |               |               |
| Crataegus marshallii                        | Parsley Haw              | <b>S</b> 1   | G5           |               |               |
| Crataegus pruinosa var.                     | Frosty Hawthorn          | SU           | GNR          |               |               |
| magnifolia                                  |                          |              |              |               |               |
| Crataegus schuettei                         | Royal Hawthorn           | SU           | G5?          |               |               |
| Crataegus spathulata                        | A Hawthorn               | S1           | G5           |               |               |
| Crataegus spes-aestatum                     | Summers Hawthorn         | SU           | GNR          |               |               |
| Crataegus succulenta var.                   | Succulent Hawthorn       | SU           | G5T5         |               |               |
| succulenta<br>Crataegus texana var.         | Texas Red Hawthorn       | SU           | GNRTNR       |               |               |
| dasyphylla                                  | Texas Red Hawthorn       | 30           | ONKINK       |               |               |
| Crataegus transmississippiensis             | A Hawthorn               | SU           | GNR          |               |               |
| Crataegus viridis var. nitens               | Green Hawthorn           | SU           | GNR          |               |               |
| Croton michauxii                            | Narrowleaf Rushfoil      | S1           | G5           |               |               |
| Cuscuta obtusiflora var.                    | Peruvian Dodder          | SU           | G5T4T5       |               |               |
| glandulosa                                  |                          |              |              |               |               |
| Cyclachaena xanthiifolia                    | A Marsh Elder            | <b>S</b> 1   | G5           |               |               |
| Cynosciadium digitatum                      | Finger Dog-shade         | S2           | G4G5         |               |               |
| Cyperus compressus                          | Coco Grass               | <b>S</b> 1   | G5           |               |               |
| Cyperus croceus                             | Baldwin's Cyperus        | <b>S</b> 1   | G5           |               |               |
| Cyperus diandrus                            | Umbrella Flatsedge       | <b>S</b> 1   | G5           |               |               |
| Cyperus flavicomus                          | An Umbrella Sedge        | S1           | G5           |               |               |
| Cyperus hystricinus                         | Flatsedge                | S2           | G4           |               |               |
| Cyperus plukenetii                          | Plukenet's Cyperus       | S2           | G5           |               |               |
| Cyperus retroflexus                         | Umbrella Sedge           | S1           | G5           |               |               |
| Cyperus retrofractus                        | Teasel-like Cyperus      | S1S2         | G5           |               |               |
| Cyperus retrorsus                           | An umbrella sedge        | SH           | G5           |               |               |
| Cyperus schweinitzii                        | Schweinitz's Flatsedge   | S3           | G5           |               |               |
| Cyperus setigerus                           | Bristled Cyperus         | S1           | G3G5         |               |               |
| Cypripedium candidum                        | Small White Lady-slipper | S1           | G4           |               |               |
| Cypripedium reginae                         | Showy Lady-slipper       | S2S3         | G4G5         |               |               |

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| SCIENTIFIC NAME<br>FLOWERING PLANTS (Cont.     | COMMON NAME                    | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Dalea enneandra                                | Nine-anther Dalea              | S2           | G5           |               |               |
| Dalea gattingeri                               | Gattinger Prairie-clover       | <b>S</b> 1   | G3G4         |               |               |
| Dalea multiflora                               | Round-headed Prairie<br>Clover | SH           | G5           |               |               |
| Dalea villosa var. villosa                     | Silky Prairie Clover           | SU           | G5T5         |               |               |
| Decodon verticillatus                          | Swamp Loosestrife              | <b>S</b> 1   | G5           |               |               |
| Delphinium exaltatum                           | Tall Larkspur                  | S2           | G3           |               |               |
| Descurainia pinnata ssp. pinnata               | Tansy Mustard                  | S2S3         | G5T5         |               |               |
| Desmodium ochroleucum                          | Creamflower Tick Trefoil       | SH           | G2           |               |               |
| Desmodium strictum                             | Pineland Tick Trefoil          | S2           | G4           |               |               |
| Desmodium viridiflorum                         | Velvety Tick Trefoil           | S1           | G5?          |               |               |
| Diarrhena americana                            | American Beakgrain             | <b>S</b> 1   | G4G5         |               |               |
| Dichanthelium dichotomum ssp. mattamuskeetense | A Panic Grass                  | SH           | G4?          |               |               |
| Dichanthelium dichotomum var.                  | A Panic Grass                  | <b>S</b> 1   | G5TNR        |               |               |
| Dichanthelium leibergii                        | A Panic Grass                  | SU           | G4           |               |               |
| Dichanthelium yadkinense                       | A Panic Grass                  | S1           | G4Q          |               |               |
| Dichondra carolinensis                         | Pony-foot Grass                | <b>S</b> 1   | G5           |               |               |
| Dirca decipiens                                | Leatherwood                    | SU           | G1G2         |               |               |
| Distichlis spicata var. spicata                | Seashore Salt Grass            | <b>S</b> 1   | G5TNR        |               |               |
| Doellingeria umbellata var.<br>pubens          | Flat-topped White Aster        | <b>S</b> 1   | G5T5         |               |               |
| Echinacea angustifolia                         | Narrow-leaved<br>Coneflower    | S1           | G4           |               |               |
| Echinochloa walteri                            | A Barnyard Grass               | S1           | G5           |               |               |
| Elatine triandra var. americana                | Waterwort                      | SH           | G4           |               |               |
| Elatine triandra var. triandra                 | Waterwort                      | SH           | G5           |               |               |
| Eleocharis atropurpurea                        | A Spike Rush                   | <b>S</b> 1   | G4G5         |               |               |
| Eleocharis bifida                              | Glades Spikerush               | S1           | G3G4         |               |               |
| Eleocharis equisetoides                        | Horsetail Spike Rush           | SH           | G4           |               |               |
| Eleocharis lanceolata                          | Lance-like Spike Rush          | S2           | G4G5         |               |               |
| Eleocharis parvula                             | Small Spike Rush               | SU           | G5           |               |               |
| Elodea canadensis                              | Broad Waterweed                | SU           | G5           |               |               |
| Elymus churchii                                | Church's Wildrye               | S1           | G2G3         |               |               |
| Elymus glaucus                                 | Blue Wild Rye                  | SU           | G5           |               |               |
| Epifagus virginiana                            | Beech Drops                    | S2           | G5           |               |               |
| Epilobium leptophyllum                         | Willow Herb                    | S1           | G5           |               |               |
| Eragrostis curtipedicellata                    | Gummy Lovegrass                | <b>S</b> 1   | G5           |               |               |
| Eragrostis glomerata                           | A Love Grass                   | <b>S</b> 1   | G3G5         |               |               |
| Eragrostis reptans                             | Creeping Love Grass            | SH           | G5           |               |               |
| Erianthus giganteus                            | Plume Grass                    | <b>S</b> 1   | G5           |               |               |
| Erianthus strictus                             | Narrow Plumegrass              | SH           | G5           |               |               |
| Eriogonum longifolium var.<br>longifolium      | Umbrella Plant                 | S2           | G4T4         |               |               |
| Erysimum capitatum var.<br>capitatum           | Western Wallflower             | S3?          | G5T5         |               |               |
| Euonymus americanus                            | Strawberry Bush                | S2           | G5           |               |               |
| Eupatorium album                               | White Thoroughwort             | SU           | G5           |               |               |

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| SCIENTIFIC NAME FLOWERING PLANTS (Cont.)    | COMMON NAME                 | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Eupatorium maculatum var.<br>bruneri        | Spotted Joe-pye Weed        | <b>S</b> 1   | G5T5         |               |               |
| Eupatorium rotundifolium var. scabridum     | A Thoroughwort              | S1?          | G5T3T5       |               |               |
| Eupatorium semiserratum                     | A Thoroughwort              | S1S2         | G5           |               |               |
| Euphorbia geyeri var. geyeri                | Geyer's Spurge              | <b>S</b> 1   | G5T5         |               |               |
| Euphorbia ouachitana                        | A Spurge                    | SU           | GNR          |               |               |
| Eurybia furcata                             | Forked Aster                | S2           | G3           |               |               |
| Eurybia macrophylla                         | Big-leaved Aster            | S2           | G5           |               |               |
| Festuca sororia                             | A Fescue                    | SH           | G4           |               |               |
| Filipendula rubra                           | Queen of the Prairie        | S2           | G4G5         |               |               |
| Fimbristylis littoralis var.<br>littoralis  | A Fimbristylis              | S1           | G3G5TNR      |               |               |
| Fimbristylis perpusilla                     | Harper's Fimbry             | SH           | G2           |               |               |
| Floerkea proserpinacoides                   | False Mermaid               | SU           | G5           |               |               |
| Fragaria vesca                              | Woodland Strawberry         | <b>S</b> 1   | G5           |               |               |
| Fraxinus biltmoreana                        | Biltmore Ash                | SU           | G5           |               |               |
| Fuirena simplex var. aristulata             | An Umbrella Grass           | S2?          | G5T4         |               |               |
| Gaillardia aestivalis var. flavovirens      | A Blanket Flower            | SH           | G5T3T5       |               |               |
| Galium asprellum                            | Rough Bedstraw              | SH           | G5           |               |               |
| Galium boreale                              | Northern Bedstraw           | S2           | G5           |               |               |
| Gaylussacia baccata                         | Black Huckleberry           | S1           | G5           |               |               |
| Gentiana andrewsii var.<br>andrewsii        | Closed Gentian              | S1           | G5?T5?       |               |               |
| Geocarpon minimum                           | Geocarpon                   | S2           | G2           | E             | T             |
| Geum fragarioides                           | Barren Strawberry           | S2           | G5T5         |               |               |
| Gillenia trifoliata                         | Indian Physic               | SH           | G4G5         |               |               |
| Glyceria acutiflora                         | Sharp-scaled Manna<br>Grass | S3           | G5           |               |               |
| Glyceria septentrionalis var. arkansana     | Eastern Manna Grass         | SU           | G5           |               |               |
| Glycyrrhiza lepidota var.<br>lepidota       | Wild Licorice               | S1           | G5TNRQ       |               |               |
| Gratiola viscidula                          | Hedge Hyssop                | <b>S</b> 1   | G4G5         |               |               |
| Grindelia ciliata                           | A Goldenweed                | <b>S</b> 1   | G4G5         |               |               |
| Helanthium tenellum                         | Dwarf Burhead               | S1           | G5?          |               |               |
| Helenium virginicum                         | Virginia Sneezeweed         | S3           | G3           | E             | T             |
| Helianthemum canadense                      | A Rockrose                  | SU           | G5           |               |               |
| Helianthus angustifolius                    | Swamp Sunflower             | S2           | G5           |               |               |
| Helianthus decapetalus                      | Thin-leaved Sunflower       | SU           | G5           |               |               |
| Heliotropium curassavicum var. curassavicum | Seaside Heliotrope          | S1           | G5T5         |               |               |
| Heteranthera reniformis                     | Mud Plantain                | SU           | G5           |               |               |
| Heterotheca canescens                       | Hoary Golden Aster          | SH           | G5?          |               |               |
| Heuchera parviflora var. parviflora         | Little Leaved Alum Root     | <b>S</b> 1   | G4T4         |               |               |
| Hottonia inflata                            | Featherfoil                 | S2           | G4           |               |               |
| Houstonia canadensis                        | Canadian Summer Bluet       | S1           | G4G5         |               |               |

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| SCIENTIFIC NAME FLOWERING PLANTS (Cont.) | COMMON NAME              | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u>  |
| Houstonia rosea                          | Rose Bluets              | SU           | G5           |               |                |
| Hydrocotyle ranunculoides                | Floating Pennywort       | S1S2         | G5           |               |                |
| Hydrocotyle verticillata                 | Water Pennywort          | <b>S</b> 1   | G5           |               |                |
| Hydrolea ovata                           | Ovate Fiddleleaf         | S2           | G5           |               |                |
| Hypericum adpressum                      | Creeping St. John's-wort | <b>S</b> 1   | G3           |               |                |
| Hypericum ascyron ssp.                   | Great St. John's-wort    | <b>S</b> 1   | G4           |               |                |
| pyramidatum                              |                          |              |              |               |                |
| Hypericum lobocarpum                     | A St. John's Wort        | <b>S</b> 1   | G4Q          |               |                |
| Hypericum majus                          | Greater St. John's-wort  | SH           | G5           |               |                |
| Ilex verticillata var. padifolia         | Winterberry              | <b>S</b> 3   | G5TNR        |               |                |
| Isolepis molesta                         | Gulf Coast Bulrush       | SH           | G4?          |               |                |
| Isotria medeoloides                      | Small Whorled Pogonia    | SH           | G2?          | E             | T              |
| Isotria verticillata                     | Large Whorled Pogonia    | S1S2         | G5           |               |                |
| Juncus alpinoarticulatus                 | Richardson Rush          | SH           | G5           |               |                |
| Juneus balticus var. littoralis          | Baltic Rush              | <b>S</b> 1   | G5T5         |               |                |
| Juneus brachyphyllus                     | Small-headed Rush        | <b>S</b> 1   | G5           |               |                |
| Juncus bufonius var. bufonius            | Toad Rush                | <b>S</b> 1   | G5T5         |               |                |
| Juncus canadensis var.                   | Canada Rush              | <b>S</b> 1   | G5T5         |               |                |
| canadensis<br>Juncus debilis             | Weak Rush                | S1           | G5           |               |                |
| Juncus filipendulus                      | Ringseed Rush            | SU           | G5           |               |                |
| Juneus modosus                           | Knotted Rush             | SH           | G5           |               |                |
| Juncus validus                           | A Rush                   | Sn<br>S1     | G5           |               |                |
| Justicia ovata var. lanceolata           | A Water Willow           | S1<br>S2     |              |               |                |
| Kellochloa verrucosa                     |                          | S2<br>S1     | G5T4T5<br>G4 |               |                |
| Lactuca hirsuta                          | Warty Panicgrass         | SU           |              |               |                |
|  | Hairy Lettuce            | SH           | G5?          |               |                |
| Lactuca ludoviciana                      | Western Lettuce          |              | G4G5         |               |                |
| Lactuca tatarica ssp. pulchella          | Blue Lettuce             | S1           | G5T5         |               |                |
| Lathyrus pusillus                        | A Wild Pea               | SH           | G5?          |               |                |
| Lathyrus venosus                         | Bushy Vetchling          | SU           | G5           |               |                |
| Leavenworthia torulosa                   | Necklace Goldcress       | SU           | G4           |               |                |
| Lechea racemulosa                        | Illinois Pinweed         | SH           | G5           |               |                |
| Leitneria floridana                      | Corkwood                 | S2           | G3           |               |                |
| Lemna obscura                            | A Duckweed               | SU           | G5           |               |                |
| Lemna trisulca                           | Star Duckweed            | S2           | G5           |               |                |
| Lemna turionifera                        | A Duckweed               | SH           | G5           |               |                |
| Liatris punctata var. punctata           | A Blazing Star           | S3           | G5T5         |               |                |
| Liatris scariosa var. nieuwlandii        | A Blazing Star           | S2           | G5?T3T5      |               |                |
| Liatris spicata                          | Button Snakeroot         | SX           | G5           |               |                |
| Lilium philadelphicum var. andinum       | Wood Lily                | S1           | G5T4T5       |               |                |
| Lilium superbum                          | Turk's Cap Lily          | <b>S</b> 1   | G5           |               |                |
| Limnobium spongia ssp.                   | American Frogbit         | S2           | G4           |               |                |
| spongia                                  |                          |              |              |               |                |
| Limnosciadium pinnatum                   | Pinnate Dogshade         | S1           | G5?          |               |                |
| Limosella aquatica                       | Mudwort                  | SH           | G5           |               |                |
| Lindera melissifolia                     | Pondberry                | <b>S</b> 1   | G3           | E             | E              |

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| SCIENTIFIC NAME                          | <b>COMMON NAME</b>                       | <b>SRANK</b> | <b>GRANK</b> | STATUS | STATUS  |
| FLOWERING PLANTS (Cont.)                 |  |              | ~            |        |         |
| Linum floridanum var.                    | Florida Yellow Flax                      | SU           | G5?T5?       |        |         |
| floridanum                               | Lossal's Twavblada                       | S2           | G5           |        |         |
| Liparis loeselii                         | Loesel's Twayblade                       |              |              |        |         |
| Lipocarpha aristulata                    | Lipocarpha                               | SH           | G5?          |        |         |
| Lipocarpha drummondii                    | A Lipocarpha                             | S1           | G4G5         |        |         |
| Lippia nodiflora                         | Fog Fruit                                | SH           | G5           |        |         |
| Listera australis                        | Southern Twayblade                       | S1           | G4           |        |         |
| Lithospermum latifolium                  | American Gromwell                        | S2           | G4           |        |         |
| Lobelia puberula                         | Downy Lobelia                            | SH           | G5           |        |         |
| Lomatium foeniculaceum ssp.              | Hairy Parsley                            | S1S3         | G5T5         |        |         |
| foeniculaceum                            | C. I. dai da it Dai                      | 00           | CETTE        |        |         |
| Ludwigia glandulosa ssp.<br>glandulosa   | Cylindricfruit Primrose-<br>willow       | S2           | G5T5         |        |         |
| Ludwigia leptocarpa                      | Primrose Willow                          | S2           | G5           |        |         |
| Ludwigia linearis                        | Narrow-leaved Primrose                   | S1           | G5           |        |         |
| Ludwigia microcarpa                      | A False Loosestrife                      | S2           | G5           |        |         |
| =  | A False Loosestrife  A False Loosestrife | SU           | G5<br>G5     |        |         |
| Ludwigia repens                          |  | SH           | G5<br>G5     |        |         |
| Lycopus asper                            | Bugle Weed                               |              |              |        |         |
| Lycopus uniflorus                        | Northern Bugleweed                       | S1           | G5           |        |         |
| Lygodesmia juncea                        | Skeleton Plant                           | S3           | G5           |        |         |
| Lyonia mariana                           | Stagger Bush                             | SH           | G5           |        |         |
| Lysimachia terrestris                    | Swamp Candle                             | S1           | G5           |        |         |
| Lysimachia thyrsiflora                   | Tufted Loosestrife                       | S1           | G5           |        |         |
| Maianthemum stellatum                    | Starry False Solomon's<br>Seal           | SU           | G5           |        |         |
| Malus angustifolia                       | Narrow-leaved Wild Crab                  | S2           | G5?          |        |         |
| Malvastrum angustum                      | Yellow False Mallow                      | S3           | G3G5         |        |         |
| Marshallia caespitosa var.<br>caespitosa | Barbara's Buttons                        | <b>S</b> 3   | G4T4         |        |         |
| Marshallia caespitosa var.<br>signata    | Barbara's Buttons                        | S1           | G4T4         |        |         |
| Mecardonia acuminata                     | Water Hyssop                             | S1           | G5           |        |         |
| Medeola virginiana                       | Indian Cucumber-root                     | SH           | G5           |        |         |
| Melica mutica                            | Two-flowered Melic                       | S1           | G5           |        |         |
|  | Grass                                    |              |              |        |         |
| Melothria pendula                        | Creeping Cucumber                        | S3           | G5?          |        |         |
| Menyanthes trifoliata                    | Bogbean                                  | <b>S</b> 1   | G5           |        |         |
| Mimosa strigillosa                       | Powderpuff                               | S1           | G4G5         |        |         |
| Mimulus glabratus var. jamesii           | Roundleaf Monkey<br>Flower               | SH           | G5T5         |        |         |
| Minuartia muscorum                       | Dixie Stitchwort                         | <b>S</b> 1   | GNR          |        |         |
| Mirabilis linearis var. linearis         | Narrow-leaved Four-<br>o'clock           | SU           | G5TNR        |        |         |
| Mitreola petiolata                       | Miterwort                                | <b>S</b> 1   | G5           |        |         |
| Moehringia lateriflora                   | Grove Sandwort                           | S2S3         | G5           |        |         |
| _  | A Horsemint                              | S2S3         | G5           |        |         |
| Monarda clinopodia                       |  |              |              |        |         |
| Monarda punctata var.<br>arkansana       | Arkansas Bee Balm                        | SA           | G5TNR        |        |         |
| Monarda punctata var. occidentalis       | Dotted Monarda                           | SA           | G5T4T5       |        |         |

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|--|-------------------------------|--------------|--------------|---------------|---------------|
| SCIENTIFIC NAME FLOWERING PLANTS (Cont.) | COMMON NAME                   | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Monarda punctata var. villicaulis        | Horsemint                     | S3           | G5T5?        |               |               |
| Muhlenbergia asperifolia                 | Scratchgrass                  | S1           | G5           |               |               |
| Muhlenbergia cuspidata                   | Plains Muhly                  | SU           | G5           |               |               |
| Muhlenbergia glabrifloris                | Inland Muhly                  | SU           | G4?          |               |               |
| Najas flexilis                           | A Naiad                       | SH           | G5           |               |               |
| Najas gracillima                         | Thread-like Naiad             | S2           | G5?          |               |               |
| Nemastylis geminiflora                   | Prairie Iris                  | S2           | G4           |               |               |
| Neviusia alabamensis                     | Snow Wreath                   | SH           | G2           |               |               |
| Nothocalais cuspidata                    | Prairie Dandelion             | S2           | G5           |               |               |
| Nyssa biflora                            | Swamp Black Gum               | SH           | G5           |               |               |
| Obolaria virginica                       | Virginia Pennywort            | S2           | G5           |               |               |
| Oenothera clelandii                      | Evening Primrose              | S2           | G3G5         |               |               |
| Oenothera fruticosa ssp. fruticosa       | Shrubby Sundrops              | S1           | G5T5         |               |               |
| Oenothera fruticosa ssp. glauca          | Shrubby Sundrops              | SH           | G5T5         |               |               |
| Oenothera glaucifolia                    | Stenosiphon                   | S2           | G5           |               |               |
| Oenothera grandis                        | Cut-leaved Evening Primrose   | SU           | G5?          |               |               |
| Oenothera nutans                         | Nodding Evening Primrose      | S1S2         | G4           |               |               |
| Oenothera parviflora                     | Northern Evening Primrose     | SU           | G5           |               |               |
| Oenothera perennis                       | Small Sundrops                | S1           | G5           |               |               |
| Oenothera rhombipetala                   | An Evening Primrose           | SH           | G4G5         |               |               |
| Oenothera suffrutescens                  | Scarlet Gaura                 | S1           | GNR          |               |               |
| Oenothera triloba                        | Stemless Evening<br>Primrose  | S2           | G4           |               |               |
| Oldenlandia boscii                       | A Bluet                       | S1           | G5           |               |               |
| Oldenlandia uniflora                     | Clustered Bluets              | S1           | G5           |               |               |
| Opuntia macrorhiza var.<br>macrorhiza    | Low Prickly Pear              | S2           | G5T5         |               |               |
| Opuntia polyacantha var. polyacantha     | Starvation Cactus             | SX           | G5T5         |               |               |
| Orobanche ludoviciana                    | A Broomrape                   | S1           | G5           |               |               |
| Orobanche riparia                        | A Broomrape                   | S1           | G4?          |               |               |
| Oxytropis lambertii var.<br>lambertii    | Locoweed                      | S2           | G5TNR        |               |               |
| Packera tomentosa                        | Hairy Groundsel               | SH           | G4G5         |               |               |
| Paronychia virginica                     | Virginia Whitlow Wort         | S1           | G4           |               |               |
| Paspalum bifidum                         | Pitchfork Paspalum            | <b>S</b> 1   | G5           |               |               |
| Paspalum dissectum                       | Mudbank Paspalum              | SH           | G4?          |               |               |
| Paspalum setaceum var. setaceum          | Slender Paspalum              | S1           | G5T5         |               |               |
| Patis racemosa                           | Black-seeded Mountain<br>Rice | S1           | G5           |               |               |
| Pediomelum argophyllum                   | Silvery Psoralea              | S2           | G5           |               |               |
| Peltandra virginica ssp. virginica       | Arrow Arum                    | S2           | G5T5         |               |               |
| Penstemon cobaea                         | A Beard-tongue                | <b>S</b> 1   | G4           |               |               |

|   |                                   |              |              | STATE  | FEDERAL |
|---|-----------------------------------|--------------|--------------|--------|---------|
| SCIENTIFIC NAME<br>FLOWERING PLANTS (Cont.) | COMMON NAME                       | <b>SRANK</b> | <b>GRANK</b> | STATUS | STATUS  |
| Penstemon grandiflorus                      | Large Beard-tongue                | <b>S</b> 1   | G5?          |        |         |
| Penstemon tenuis                            | Gulf Coast Beard-tongue           | SU           | G4           |        |         |
| Perideridia americana                       | Eastern Eulophus                  | S2           | G4           |        |         |
| Persicaria amphibia var.                    | Water Smartweed                   | S1           | G5T5         |        |         |
| stipulacea                                  | water Smartweed                   | 51           | 0313         |        |         |
| Persicaria arifolia                         | Halberd-leaved Tear<br>Thumb      | S1           | G5           |        |         |
| Persicaria bicornis                         | Pink Smartweed                    | SU           | GNR          |        |         |
| Persicaria glabra                           | Dense-flower Smartweed            | S1S2         | G5           |        |         |
| Persicaria robustior                        | Dotted Smartweed                  | SH           | G4G5         |        |         |
| Phacelia covillei                           | Coville's Phacelia                | <b>S</b> 1   | G3           |        |         |
| Philadelphus pubescens var. verrucosus      | Mock Orange                       | S1           | G5?TU        |        |         |
| Phlox amplifolia                            | Large-leaved Phlox                | S3?          | G3G5         |        |         |
| Phlox bifida                                | Bifid Phlox                       | S1           | G5?          |        |         |
| Phlox maculata ssp. pyramidalis             | Wild Sweet William                | S2           | G5T4T5       |        |         |
| Phyllanthus polygonoides                    | Knotweed Leaf-flower              | S1           | G5           |        |         |
| Physalis grisea                             | Strawberry-tomato                 | SU           | G5?          |        |         |
| Physalis missouriensis                      | Missouri Groundcherry             | SU           | G5?          |        |         |
| Physaria filiformis                         | Missouri Bladderpod               | S3           | G3           | E      | T       |
| Physostegia intermedia                      | A False Dragonhead                | S1           | G5           |        |         |
| Plantago heterophylla                       | Slender Plantain                  | SU           | G5           |        |         |
| Plantago patagonica                         | Woolly Plantain                   | S2           | G5           |        |         |
| Platanthera ciliaris                        | Yellow-fringed Orchid             | <b>S</b> 1   | G5           |        |         |
| Platanthera clavellata                      | Green Wood Orchid                 | S2           | G5           |        |         |
| Platanthera flava var. flava                | Pale Green Orchid                 | S2           | G4?T4?Q      |        |         |
| Platanthera flava var. herbiola             | Northern Rein Orchid              | S2           | G4?T4Q       |        |         |
| Platanthera leucophaea                      | Eastern Prairie Fringed<br>Orchid | S1           | G2G3         | E      | T       |
| Platanthera praeclara                       | Western Prairie Fringed<br>Orchid | S1           | G3           | E      | T       |
| Platanthera psycodes                        | Small Purple-fringed<br>Orchid    | SX           | G5           |        |         |
| Pluchea foetida var. foetida                | March Fleabane                    | SH           | G5T5         |        |         |
| Pogonia ophioglossoides                     | Snake-mouth Orchid                | <b>S</b> 1   | G5           |        |         |
| Polygonum americanum                        | Jointweed                         | S2           | GNR          |        |         |
| Polymnia laevigata                          | Smooth Leaf-cup                   | SX           | G3           |        |         |
| Populus grandidentata                       | Big-toothed Aspen                 | <b>S</b> 1   | G5           |        |         |
| Populus tremuloides                         | Quaking Aspen                     | S2           | G5           |        |         |
| Portulaca pilosa                            | Kiss Me Quick                     | SU           | G5           |        |         |
| Potamogeton epihydrus                       | Nuttall Pondweed                  | SH           | G5           |        |         |
| Potamogeton pulcher                         | Spotted Pondweed                  | S2S3         | G5           |        |         |
| Potamogeton pusillus var. pusillus          | Slender Pondweed                  | S3           | G5T5         |        |         |
| Potentilla supina ssp. paradoxa             | Bushy Cinquefoil                  | <b>S</b> 1   | G5           |        |         |
| Prenanthes racemosa                         | Rattlesnake Root                  | SH           | G5           |        |         |
| Primula fassettii                           | Amethyst Shooting Star            | S2           | GNR          |        |         |
| Primula frenchii                            | French's Shooting Star            | <b>S</b> 1   | GNR          |        |         |
|   |                                   |              |              |        |         |

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|---|-------------------------------|--------------|--------------|---------------|---------|
| SCIENTIFIC NAME<br>FLOWERING PLANTS (Cont.) | COMMON NAME                   | <b>SRANK</b> | <u>GRANK</u> | <u>STATUS</u> | STATUS  |
| Proserpinaca palustris var.                 | Mermaid Weed                  | SU           | G5T5         |               |         |
| palustris<br>Pseudognaphalium helleri       | Heller's Cudweed              | SU           | G4G5         |               |         |
| Pseudognaphalium                            | Rabbit Tobacco                | SU           | G4G5T3?      |               |         |
| micradenium                                 | Rubbit Tobacco                | be           | 040313.      |               |         |
| Ptilimnium capillaceum                      | Mock Bishop's Weed            | SH           | G5           |               |         |
| Pycnanthemum muticum                        | Blunt Mountain Mint           | S2           | G5           |               |         |
| Pycnanthemum torrei                         | Torrey Mountain Mint          | SH           | G2           |               |         |
| Quercus ellipsoidalis                       | Northern Pin Oak              | S1           | G5           |               |         |
| Quercus margarettiae                        | Sand Post Oak                 | SRF          | G5           |               |         |
| Quercus nigra                               | Water Oak                     | S2           | G5           |               |         |
| Quercus prinoides                           | Dwarf Chinquapin Oak          | S3?          | G5           |               |         |
| Quercus texana                              | Nuttall's Oak                 | S2           | G4G5         |               |         |
| Ranunculus cymbalaria                       | Seaside Crowfoot              | SH           | G5           |               |         |
| Rhynchosia difformis                        | Double-formed Snoutbean       | <b>S</b> 1   | G5?          |               |         |
| Rhynchospora globularis                     | Globe Beaksedge               | <b>S</b> 1   | G5?          |               |         |
| Rhynchospora glomerata                      | Clustered Beaksedge           | SU           | G5           |               |         |
| Rhynchospora harveyi                        | Harvey's Beak-rush            | <b>S</b> 1   | G4           |               |         |
| Rhynchospora macrostachya var. macrostachya | Horned Rush                   | S1           | G4T4Q        |               |         |
| Rhynchospora scirpoides                     | Longbeak Beaksedge            | SU           | G4           |               |         |
| Ribes americanum                            | Gooseberry                    | <b>S</b> 1   | G5           |               |         |
| Rorippa aquatica                            | Lake Cress                    | S2           | G4?          |               |         |
| Rosa blanda                                 | Smooth Rose                   | <b>S</b> 1   | G5           |               |         |
| Rosa foliolosa                              | White Prairie Rose            | <b>S</b> 1   | G5           |               |         |
| Rubus plicatifolius                         | A Blackberry                  | SU           | G5           |               |         |
| Rubus rosa                                  | Rose Blackberry               | SU           | G5           |               |         |
| Rubus satis                                 | Ithaca Blackberry             | SU           | G4G5Q        |               |         |
| Rudbeckia amplexicaulis                     | Clasping Leaved<br>Coneflower | S?           | G5           |               |         |
| Rudbeckia bicolor                           | Pine-woods Coneflower         | S1           | G3G5         |               |         |
| Rudbeckia grandiflora var. grandiflora      | Rough Coneflower              | S1           | G5T4?        |               |         |
| Ruppia maritima                             | Ditch Grass                   | <b>S</b> 1   | G5           |               |         |
| Sabatia brachiata                           | Marsh Pink                    | <b>S</b> 1   | G5?          |               |         |
| Sacciolepis striata                         | American Cupscale             | <b>S</b> 1   | G5           |               |         |
| Sagina procumbens                           | Matted Pearlwort              | SU           | G5           |               |         |
| Sagittaria ambigua                          | Kansas Arrowhead              | S1           | G2?          |               |         |
| Sagittaria platyphylla                      | Ovate-leaved Arrowhead        | S1           | G5           |               |         |
| Salix discolor                              | Pussy Willow                  | S1           | G5           |               |         |
| Salix famelica                              | Diamond Willow                | SU           | G5T5         |               |         |
| Salix petiolaris                            | Meadow Willow                 | <b>S</b> 1   | G5           |               |         |
| Sambucus pubens                             | Red-berried Elderberry        | S1           | G4G5Q        |               |         |
| Sanicula smallii                            | Black Snakeroot               | SH           | G5           |               |         |
| Sapindus saponaria var.                     | Soapberry                     | S2           | G5T5         |               |         |
| drummondii                                  |                               |              |              |               |         |
| Schoenoplectiella hallii                    | Hall's Bulrush                | S2           | G2G3         |               |         |
| Schoenoplectiella purshiana                 | Weakstalk Bulrush             | S2           | G4G5         |               |         |
| Schoenoplectiella saximontana               | Rocky Mountain Bulrush        | S1           | G5           |               |         |

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|---|---------------------------|--------------|--------------|---------------|---------------|
| SCIENTIFIC NAME<br>FLOWERING PLANTS (Cont.) | COMMON NAME               | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Schoenoplectus americanus                   | Olney's Bulrush           | SH           | G5           |               |               |
| Schoenoplectus californicus                 | Giant Bulrush             | S11          | G5           |               |               |
| Schoenoplectus deltarum                     | Delta Bulrush             | SH           | G3G4         |               |               |
| Schoenoplectus etuberculatus                | Canby's Bulrush           | SH           | G3G4<br>G3G4 |               |               |
| Schoenoplectus heterochaetus                | Giant Bulrush             | SU           | G5 G5        |               |               |
| =   |                           | S1           | G5           |               |               |
| Schoenoplectus subterminalis                | Swaying Rush              |              |              |               |               |
| Schoenoplectus torreyi                      | Torrey's Bulrush          | SH           | G5?          |               |               |
| Scirpus divaricatus                         | A Bulrush                 | SH           | G5           |               |               |
| Scirpus pallidus                            | Pale Bulrush              | S2           | G5           |               |               |
| Scirpus pedicellatus                        | A Bulrush                 | S2           | G4           |               |               |
| Scleria reticularis var. pubescens          | Muhlenberg's Nut-rush     | S1           | G5           |               |               |
| Scrophularia lanceolata                     | Early Figwort             | SH           | G5           |               |               |
| Scutellaria elliptica var. hirsuta          | Hairy Skullcap            | SH           | G5T5         |               |               |
| Scutellaria galericulata                    | Marsh Skullcap            | <b>S</b> 1   | G5           |               |               |
| Sida elliottii                              | Elliott Sida              | <b>S</b> 1   | G4G5         |               |               |
| Sisyrinchium atlanticum                     | Eastern Blue-eyed Grass   | S2           | G5           |               |               |
| Smilax illinoensis                          | Carrion Flower            | S2S3         | G4?          |               |               |
| Solanum elaeagnifolium                      | White Horse Nettle        | SU           | G4G5         |               |               |
| Solidago riddellii                          | Riddell's Goldenrod       | <b>S</b> 3   | G5           |               |               |
| Solidago rigida ssp. humilis                | Stiff Goldenrod           | SU           | G5T5         |               |               |
| Spermolepis diffusa                         | Rough-fruit Spermolepis   | S1           | GNR          |               |               |
| Sphenopholis pensylvanica                   | Swamp Oats                | SH           | G4           |               |               |
| Spiraea alba var. alba                      | Meadow-sweet              | S1           | G5T5         |               |               |
| Spiraea tomentosa                           | Hardhack                  | S1           | G5           |               |               |
| Spiranthes praecox                          | Greenvein Ladies' Tresses | S1           | G5           |               |               |
| Sporobolus airoides                         | Alkali Sacaton            | SH           | G5           |               |               |
| Stachys aspera                              | Hedge Nettle              | SH           | G4?          |               |               |
| Steinchisma hians                           | Gaping Panic Grass        | S3           | G5           |               |               |
| Stylisma pickeringii var.                   | A Stylisma                | S1           | G4T4         |               |               |
| pattersonii                                 | Bigleaf Snowbell          | SU           | G5           |               |               |
| Styrax grandifolius                         | C                         |              |              |               |               |
| Sullivantia sullivantii                     | Sullivantia               | S2           | G4           |               |               |
| Symphoricarpos occidentalis                 | Wolfberry                 | S1           | G5           |               |               |
| Symphyotrichum ciliatum                     | Rayless Alkali Aster      | SH           | G5           |               |               |
| Symphyotrichum patens var. gracile          | Spreading Aster           | SU           | G5T4T5       |               |               |
| Symphyotrichum racemosum var. subdumosum    | Small White Aster         | S2           | G4G5T3T5Q    |               |               |
| Symphyotrichum subulatum var. ligulatum     | Saltmarsh Aster           | S2           | G5           |               |               |
| Thalia dealbata                             | Water Canna               | S2           | G4           |               |               |
| Thelesperma filifolium                      | Thelesperma               | S2           | G4G5         |               |               |
| Tilia americana var.                        | White Basswood            | SU           | G5T5         |               |               |
| heterophylla                                |                           |              |              |               |               |
| Tipularia discolor                          | Cranefly Orchid           | S3           | G4G5         |               |               |
| Torreyochloa pallida var.<br>pallida        | Pale Manna Grass          | S1           | G5T5?        |               |               |
| Tradescantia ozarkana                       | Ozark Spiderwort          | S2           | G3           |               |               |

| SCIENTIFIC NAME                      | COMMON NAME            | SRANK      | <u>GRANK</u> | STATE<br>STATUS | FEDERAL<br>STATUS |
|--------------------------------------|------------------------|------------|--------------|-----------------|-------------------|
| FLOWERING PLANTS (Cont.)             |                        |            |              |                 |                   |
| Tragia cordata                       | Heart-leaved Noseburn  | S2         | G4           |                 |                   |
| Trautvetteria caroliniensis          | False Bugbane          | S2         | G5           |                 |                   |
| Trepocarpus aethusae                 | Trepocarpus            | <b>S</b> 1 | G4G5         |                 |                   |
| Triadenum tubulosum                  | Marsh St. John's Wort  | S1         | G4?          |                 |                   |
| Trichostema setaceum                 | Blue Curls             | <b>S</b> 1 | G5           |                 |                   |
| Tridens flavus var. chapmanii        | A Grass                | S2         | G5T3         |                 |                   |
| Tridens muticus var. elongatus       | Slim Tridens           | SH         | G5T4?        |                 |                   |
| Trifolium carolinianum               | Carolina Clover        | <b>S</b> 1 | G5           |                 |                   |
| Trifolium stoloniferum               | Running Buffalo Clover | <b>S</b> 1 | G3           | E               | E                 |
| Trillium nivale                      | Snow Trillium          | <b>S</b> 3 | G4           |                 |                   |
| Trillium pusillum var.               | Ozark Wake Robin       | S2         | G3T3         |                 |                   |
| ozarkanum                            |                        |            |              |                 |                   |
| Triodanis holzingeri                 | A Venus' Looking Glass | SH         | G4           |                 |                   |
| Triodanis lamprosperma               | A Venus' Looking Glass | S2         | G5?          |                 |                   |
| Turritis glabra                      | Tower Mustard          | <b>S</b> 1 | G5           |                 |                   |
| Typha domingensis                    | Southern Cattail       | <b>S</b> 1 | G4G5         |                 |                   |
| Ulmus crassifolia                    | Cedar Elm              | <b>S</b> 1 | G5           |                 |                   |
| Ulmus thomasii                       | Rock Elm               | S2         | G5           |                 |                   |
| Urtica chamaedryoides                | Weak Nettle            | S1         | G4G5         |                 |                   |
| Utricularia minor                    | Lesser Bladderwort     | S1         | G5           |                 |                   |
| Utricularia subulata                 | Slender Bladderwort    | S1         | G5           |                 |                   |
| Valerianella ozarkana                | Ozark Corn Salad       | S2         | G3           |                 |                   |
| Veronica americana                   | American Brooklime     | SH         | G5           |                 |                   |
| Viburnum bracteatum                  | Ozark Arrow Wood       | S1S2       | G1G2         |                 |                   |
| Viburnum dentatum                    | Southern Arrow-wood    | S1         | G5           |                 |                   |
| Viburnum lentago                     | Nannyberry             | S1         | G5           |                 |                   |
| Viburnum recognitum                  | Northern Arrow-wood    | S1         | G4G5         |                 |                   |
| Vicia ludoviciana ssp. leavenworthii | Louisiana Vetch        | SH         | G5T5         |                 |                   |
| Vicia minutiflora                    | Pygmy-flowered Vetch   | SH         | G5           |                 |                   |
| Viola affinis                        | Sand Violet            | <b>S</b> 1 | G5           |                 |                   |
| Viola pallens                        | Smooth White Violet    | S2         | G5T5         |                 |                   |
| Vitis rotundifolia var.              | Muscadine              | <b>S</b> 1 | G5T5         |                 |                   |
| rotundifolia                         |                        |            |              |                 |                   |
| Wolffia borealis                     | Dotted Watermeal       | SU         | G5           |                 |                   |
| Wolffia columbiana                   | Columbia Water-meal    | SU         | G5           |                 |                   |
| Wolffiella gladiata                  | Wolffiella             | S1         | G5           |                 |                   |
| Xyris jupicai                        | Yellow-eyed-grass      | <b>S</b> 1 | G5           |                 |                   |
| Xyris torta                          | Yellow-eyed Grass      | <b>S</b> 1 | G5           |                 |                   |
| Yucca arkansana                      | Arkansas Yucca         | S2         | G5           |                 |                   |
| Yucca glauca                         | Small Soapweed Yucca   | S2         | G5           |                 |                   |
| Zannichellia palustris var. major    | Horned Pondweed        | S3?        | G5TNR        |                 |                   |
| Zigadenus elegans ssp. glaucus       | White Camas            | S2         | G5T4T5       |                 |                   |
| Zigadenus nuttallii                  | Death Camas            | <b>S</b> 1 | G5           |                 |                   |
| Zizania palustris var. interior      | Interior Wild Rice     | SH         | G4G5T4T5     |                 |                   |
| T-4-1 El                             | 525                    |            |              |                 |                   |

**Total Flowering Plant Records: 537** 

| Macrocotyla glandulosa Pink Planarian S1 G2G3 Macrocotyla lewisi Lewis Cave Planarian S1 G1 Sphalloplana cvaginata Perryville Cave Planarian S1 G1G2 Sphalloplana bubrichti Hubricht's Cave Planarian S1 G2G4  MOLLUSKS  Alasmidonta marginata Elktoe S2 G4 Alasmidonta marginata S1 Sippershell Mussel S1 G1G2 Shalloplana stygius Stygian Anmicola S1 G1 Annodontoides ferussacianus Cylindrical Papershell S1 G5 Antrobia culveri Tumbling Creek S1 G1 E E Cavesnail Arcidens confragosus Cavesnail S2 G3 G4 Caresnail Ponderous Campeloma SU G5 Cyclonaias nodulata Wartyback S3 G4 Cyclonaias nodulata Wartyback S3 G4 Cylongian aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Eliptio crassidens Elephantear S1 G3 E Epioblasma curtisi Curis Pearlymussel S1 G1 E E Epioblasma triquetra Snuffbox S1 G3 E Epioblasma triquetra Snuffbox S1 G3 E Epiotigens aldrichi Hoosier Springsnail S4 G4 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Cherrystone Snail S3 G4 Lampsilis bitginsi Higgins Eye S1 G1G2 E E Lampsilis bittisi Northern Brokenray S3 G4 Lampsilis higginsi Higgins Eye S1 G1G2 E E Lampsilis bittisi Northern Brokenray S3 G4 Lampsilis higginsi Higgins Eye S1 G1G2 E E Lampsilis marceta Black Sandshell S2 G2 G2 E E Lampsilis marceta Black Sandshell S2 G3 G3 E Lampsilis marceta Black Sandshell S2 G4 G5 Marsonia scalariformis Moss Pyrg S1 G1 Marstonia ozarkensis Ozark Pyrg S1 G1 Marstonia ozarkansansis Southern Hickorynut S1 G3 G3 E E Delovaria arkansasensis Ozark Pyrg S1 G1 Millerelix deltoidea Oklahoma Liptooth S1 G3 G3 G3 G4 Willerelix deltoidea Oklahoma Liptooth S1 G3 G3 G3 G4 Willerelix deltoidea Oklahoma Liptooth S1 G3 G3 G3 G3 G4 Willerelix deltoidea Oklahoma Liptooth S1 G3 G3 G3 G3 G3 G4 Willerelix deltoidea Oklahoma Liptooth S1 G3 G3 G3 G3 G3 G3 G4 G5 G3 G3 G4 G5 G3 G3 G3 G3 G4 G5 G3 G3 G3 G4 G5 G3 G3 G3 G3 G3 G3 G3 G4 G5 G |                              |                           |              |              | STATE         | <b>FEDERAL</b> |
|--|------------------------------|---------------------------|--------------|--------------|---------------|----------------|
| Macrocotyla lewis   Lewis' Cave Planarian   S1   G1   G1   G2   G4   G4  | SCIENTIFIC NAME<br>FLATWORMS | COMMON NAME               | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u>  |
| Macrocotyla lewisi   Lewis' Cave Planarian   S1   G1   G1G2   Sphalloplana evaginata   Perryville Cave Planarian   S1   G1G2   G2G4  | Macrocotyla glandulosa       | Pink Planarian            | <b>S</b> 1   | G2G3         |               |                |
| Sphalloplana hubrichti   Total Flatworm Records: 4   | Macrocotyla lewisi           | Lewis' Cave Planarian     | S1           | G1           |               |                |
| MOLLUSKS   | Sphalloplana evaginata       | Perryville Cave Planarian | <b>S</b> 1   | G1G2         |               |                |
| MOLLUSKS  Alasmidonta marginata Elktoe S2 G4 Alasmidonta viridis Slippershell Mussel S1 G4G5 E Aminicola stygius Stygian Aminicola S1 G1 Andontontoides ferussacianus Cylindrical Papershell S1 G5 Antirobia culveri Tumbling Creek S1 G1 E E Antirobia culveri Tumbling Creek S1 G1 E E Antirobia culveri Tumbling Creek S1 G1 E Cavesnail Arcidens confragosus Rock Pocketbook S3 G4 Campeloma crassulum Ponderous Campeloma SU G5 Cyclonaias nodulata Wartyback S3 G4 Cyrlogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Elliptio crassidens Elephantear S1 G5 E Epioblasma curtisii Curtis Pearlymussel S1 G1 E E Epioblasma curtisii Curtis Pearlymussel S1 G3 E E Epiotolasma curtisii Curtis Pearlymussel S4 G4 Fontigens aldrichi Hoosier Springsnail S4 G4 Fontigens antirocectes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 G5 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Eampsilis britisi Northem Brokenray S3 G4T3 Lampsilis pititsi Northem Brokenray S3 G4T3 Lampsilis pititsi Northem Brokenray S3 G4T3 Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis pititsi Northem Brokenray S3 G4G5 Lampsilis pititsi Northem Brokenray S3 G3 E E Lampsilis pititsi Northem Brokenray S3 G3 E E Lampsilis pititsi Northem Brokenray S3 G4G5 Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G3 | Sphalloplana hubrichti       | Hubricht's Cave Planarian | <b>S</b> 1   | G2G4         |               |                |
| Alasmidonta marginata  | Total Flatworm Records: 4    |                           |              |              |               |                |
| Alasmidonta viridis Slippershell Mussel S1 G4G5 E Amnicola stygius Stygian Amnicola S1 G1 Annodontoides ferussacianus Cylindrical Papershell S1 G5 Antrobia culveri Tumbling Creek S1 G1 E E Antrobia culveri Tumbling Creek S1 G1 E Cavesnail Arcidens confragosus Rock Pocketbook S3 G4 Campeloma crassulum Ponderous Campeloma SU G5 Cyclonaias nodulata Wartyback S3 G4 Cyclonaias nodulata Wartyback S3 G4 Cyclonaias nodulata Wartyback S3 G4 Cyprogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Elliptio crassidens Elephantear S1 G5 E Epioblasma curitsii Curtis Pearlymussel S1 G1 E E Epioblasma triquetra Snuffbox S1 G3 E E Fontigens aldrichi Hoosier Springsnail S4 G4 Fontigens antroecetes Missouri Cavesnail S2 G2 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Cherrystone Snail S3 G4T3 Lampsilis higtins Worthern Brokenray S3 G4T3 Lampsilis higtinsi Northern Brokenray S3 G4T3 Lampsilis rafinesqueana Nosoho Mucket S2 G2 E E Lampsilis rafinesqueana Nosoho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1 G1 Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G4 Margaritifera monodonta Spectaclecase S3 G3 E E Leptoxis arkansensis Ozark Pyrg SH G1 Marstonia ozarkensis Moss Pyrg S1 G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Neohelix divesta Ozark Whitelip S3 G3G4 Patera perigrapta Engraved Blackbooth S2 G5  | MOLLUSKS                     |                           |              |              |               |                |
| Amnicola stygius Sygian Amnicola S1 G1 Anodontoides ferussacianus Cylindrical Papershell S1 G5 Antrobia culveri Tumbling Creek Cavesnail Arcidens confragosus Rock Pocketbook S3 G4 Campeloma crassulum Ponderous Campeloma SU G5 Cyclonaias nodulata Wartyback S3 G4 Cyprogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Eliptio crassidens Elephantear S1 G5 E Epioblasma curtisii Curtis Pearlymussel S1 G1 E E Epioblasma triquetra Snuffbox S1 G3 E E Epioblasma triquetra Snuffbox S1 G3 E E Fontigens aldrichi Hoosier Springsnail S4 G4 Fontigens and Foster Sample S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 G2 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis recta Black Sandshell S1 G1 Ligumia recta Black Sandshell S2 G4G5 Margaritifera monodonta Spectaclecase S3 G3 E E Leptoxis arkansensis Arkansa Mudalia S1 G1 Marstonia ocarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Marstonia scalariformis Moss Pyrg SH G1 Mesodon mitchellianus Sangson Sprite S2 G2GQ Neohelix divesta Ozark Whitelip S3 G3G4 Patera perigrapta Engraved Bladetooth S2 G5  | _                            | Elktoe                    | S2           | G4           |               |                |
| Anodontoides ferussacianus  Antrobia culveri  Tumbling Creek Cavesnail  Arcidens confragosus  Rock Pocketbook  S3 G4  Campeloma crassulum  Ponderous Campeloma  Cyclonaias nodulata  Wartyback  S3 G4  Cyprogenia aberti  Cyprogenia aberti  Discus nigrimontanus  Black Mountain Disc  Eliliptio crassidens  Elephantear  Elioblasma curtisii  Curtis Pearlymussel  Eliopiolasma triquetra  Snuffbox  S1 G3 E  E  Epioblasma triquetra  Snuffbox  S1 G3 E  E  Entotigens antrocectes  Missouri Cavesnail  Gastrocopta cristata  Crested Snaggletooth  Elampsilis abrupta  Lampsilis abrupta  Lampsilis higginsii  Higgins Eye  Lampsilis rafinesqueana  Neosho Mucket  S2 G2  G2 E  E  E  Lampsilis rafinesqueana  Neosho Mucket  S2 G3  E  E  E  E  E  E  E  E  E  E  E  E  E  | Alasmidonta viridis          | Slippershell Mussel       | <b>S</b> 1   | G4G5         | E             |                |
| Antrobia culveri Tumbling Creek Cavesnail Arcidens confragosus Rock Pocketbook S3 G4 Campeloma crassulum Ponderous Campeloma SU G5 Cyclonaias nodulata Wartyback S3 G4 Cyprogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Elliptio crassidens Elephantear S1 G5 E Epioblasma curtisii Curtis Pearlymussel S1 G1 E Epioblasma triquetra Snuffbox S1 G3 E Enottigens aldrichi Hoosier Springsnail S4 G4 Fontigens natroecetes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G5 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Eampsilis sbrittsi Northem Brokenray S3 G4T3 Lampsilis nigginsii Higgins Eye S1 G1G2 E Eampsilis rafinesqueana Neosho Mucket S2 G2 E Eampsilis rafinesqueana Neosho Mucket S2 G2 E Eapptoda leptodon Scaleshell S1 G1 Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Marstonia scalariformis Moss Pyrg S1 G4 Milcromenetus sampsoni Sampson Sprite S2 G2G3G3 Milcromenetus sampsoni Sampson Sprite S2 G2G3G3G4 Milcromenetus sampsoni Sampson Sprite S2 G2G3G3G4 M | Amnicola stygius             | Stygian Amnicola          | S1           | G1           |               |                |
| Arcidens confragosus Rock Pocketbook S3 G4 Campeloma crassulum Ponderous Campeloma SU G5 Cyclonaias nodulata Wartyback S3 G4 Cyprogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Eliphio crassidens Elephantear S1 G5 E Epioblasma curtisii Curtis Pearlymussel S1 G1 E E Epioblasma triquetra Snuffbox S1 G3 E Epioblasma triquetra Snuffbox S1 G3 E Epiotolasma triquetra Snuffbox S1 G4 G4 Fontigens antrocectes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptoda leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansa Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia ozarkensis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Mircomenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3C4 Obovaria arkansasensis Southern Hickorynut S3 G4 Patera perigrapta Engraved Bladetooth S2 G5  | Anodontoides ferussacianus   | Cylindrical Papershell    | S1           | G5           |               |                |
| Campeloma crassulum Cyclonaias nodulata Wartyback S3 G4 Cyprogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Elliptio crassidens Elephantear S1 G5 E Epioblasma curtisii Curtis Pearlymussel S1 G1 E Epioblasma triquetra Snuffbox S1 G3 E E Fontigens aldrichi Hoosier Springsnail Fontigens antroecetes Missouri Cavesnail Gastrocopta cristata Crested Snaggletooth S1 G3 G4  Cyrogenia aberti Cortis Pearlymussel S1 G1 E E E Fioblasma triquetra Snuffbox S1 G3 E E E Fontigens antroecetes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Liuplax sulculosa Furrowed Lioplax Margaritifera monodonta Spectaclecase S3 G3 E E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Mesodon mitchellianus Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth S0 Novaria arkansasensis Southern Hickorynut S3 G4 S1 G6S  | Antrobia culveri             | •                         | S1           | G1           | E             | E              |
| Cyclonaias nodulata Wartyback S3 G4 Cyprogenia aberti Western Fanshell S2 G2G3Q Discus nigrimontanus Black Mountain Disc S3 G4 Elliptio crassidens Elephantear S1 G5 E Epioblasma curtisii Curtis Pearlymussel S1 G1 E Epioblasma triquetra Snuffbox S1 G3 E Epioblasma triquetra Snuffbox S1 G3 E Eniothiem Hoosier Springsnail S4 G4 Fontigens aldrichi Hoosier Springsnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia ozarkensis Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Dovaria arkansasensis Southern Hickorynut S3 G4F3 Patera perigrapta   | Arcidens confragosus         | Rock Pocketbook           | S3           | G4           |               |                |
| Cyprogenia abertiWestern Fanshell\$2G2G3QDiscus nigrimontanusBlack Mountain Disc\$3G4Elliptio crassidensElephantear\$1G5EEpioblasma curtisiiCurtis Pearlymussel\$1G3EEEpioblasma triquetraSnuffbox\$1G3EEFontigens aldrichiHoosier Springsnail\$4G4FFontigens antrocectesMissouri Cavesnail\$2G2Fontigens proserpinaProserpine Cavesnail\$1G1Gastrocopta cristataCrested Snaggletooth\$1G5Gastrocopta pellucidaSlim Snaggletooth\$1G5Hendersonia occultaCherrystone Snail\$3G4Lampsilis abruptaPink Mucket\$2G2EELampsilis hitginsiiHiggins Eye\$1G1G2EELampsilis rafinesqueanaNeosho Mucket\$2G2EELeptodea leptodonScaleshell\$1G1G2EELeptoxis arkansensisArkansas Mudalia\$1G1EELioplax sulculosaFurrowed Lioplax\$1G5Margaritifera monodontaSpectaclecase\$3G3EEMarstonia ozarkensisOzark Pyrg\$HG1Marstonia ozarkensisOzark Pyrg\$HG1HMesodon mitchellianusSealed Goblet\$1G4HMesodon mitchellianusSealed Goblet\$1G2H<  | Campeloma crassulum          | Ponderous Campeloma       | SU           | G5           |               |                |
| Discus nigrimontanus  Black Mountain Disc  S3 G4  Elliptio crassidens  Elephantear  S1 G5 E  Epioblasma curtisii  Curtis Pearlymussel  S1 G1 E  Epioblasma triquetra  Snuffbox  S1 G3 E  E  Epioblasma triquetra  Snuffbox  S1 G3 E  E  E  Fontigens aldrichi  Hoosier Springsnail  S2 G2  Fontigens antroecetes  Missouri Cavesnail  S2 G2  Fontigens proserpina  Proserpine Cavesnail  S1 G1  Gastrocopta cristata  Crested Snaggletooth  S1 G5  Gastrocopta pellucida  Slim Snaggletooth  S1 G5  Hendersonia occulta  Cherrystone Snail  Lampsilis abrupta  Pink Mucket  S2 G2 E  E  Lampsilis brittsi  Northern Brokenray  S3 G4T3  Lampsilis higginsii  Higgins Eye  S1 G1G2 E  E  Lampsilis rafinesqueana  Neosho Mucket  S2 G2 E  E  Laptoda leptodon  Scaleshell  S1 G1G2 E  E  Leptoxis arkansensis  Arkansas Mudalia  S1 G1  Ligumia recta  Black Sandshell  S2 G4G5  Lioplax sulculosa  Furrowed Lioplax  S1 G3  Margaritifera monodonta  Spectaclecase  S3 G3 E  E  Marstonia ozarkensis  Ozark Pyrg  SH  G1  Marstonia scalariformis  Moss Pyrg  S1 G1  Mesodon mitchellianus  Sealed Goblet  S1 G4  Micromenetus sampsoni  Sampson Sprite  S2 G2G3Q  Millerelix deltoidea  Oklahoma Liptooth  SU G2  Neohelix divesta  Ozark Whitelip  S3 G3G4  Patera perigrapta  Engraved Bladetooth  S2 G5  | Cyclonaias nodulata          | Wartyback                 | <b>S</b> 3   | G4           |               |                |
| Discus nigrimontanus       Black Mountain Disc       S3       G4         Elliptio crassidens       Elephantear       S1       G5       E         Epioblasma curtisii       Curtis Pearlymussel       S1       G1       E       E         Epioblasma triquetra       Snuffbox       S1       G3       E       E         Fontigens aldrichi       Hoosier Springsnail       S4       G4       Fontigens antroecetes       Missouri Cavesnail       S2       G2         Fontigens proserpina       Proserpine Cavesnail       S1       G1       G5       Fontigens proserpina       Proserpine Cavesnail       S1       G5       G5       G5       G5       G5       G5       G6       G3       G5       G6       G5       G6       G3       G5       G6       G7       G7       E       E       E       E       Lampsilis british       Morthern Brokenray       S  | Cyprogenia aberti            | Western Fanshell          | S2           | G2G3Q        |               |                |
| Elliptio crassidens  |                              | Black Mountain Disc       | <b>S</b> 3   | G4           |               |                |
| Epioblasma curtisii Curtis Pearlymussel S1 G1 E E Epioblasma triquetra Snuffbox S1 G3 E E Fontigens aldrichi Hoosier Springsnail S4 G4 Fontigens antroecetes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis hitginisii Higgins Eye S1 G1G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Oozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S3 G4 Patera perigrapta Engraved Bladetooth S2 G5  | =                            | Elephantear               | <b>S</b> 1   | G5           | E             |                |
| Epioblasma triquetra Snuffbox S1 G3 E E Fontigens aldrichi Hoosier Springsnail S4 G4 Fontigens antroecetes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neobelix divesta Ozark Whitelip S3 G3G4 Patera perigrapta Engraved Bladetooth S2 G5  | =                            | Curtis Pearlymussel       | <b>S</b> 1   | G1           | E             | E              |
| Fontigens aldrichi Hoosier Springsnail S4 G4 Fontigens antroecetes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neoholix divesta Ozark Whitelip S3 G3G4 Patera perigrapta Engraved Bladetooth S2 G5  | -                            | •                         | <b>S</b> 1   | G3           | E             | E              |
| Fontigens antroecetes Missouri Cavesnail S2 G2 Fontigens proserpina Proserpine Cavesnail S1 G1 Gastrocopta cristata Crested Snaggletooth S1 G5 Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E Lampsilis hitginsii Higgins Eye S1 G1G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta   | _                            | Hoosier Springsnail       | S4           | G4           |               |                |
| Gastrocopta cristata Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Leptodea leptodon Scaleshell S1 G1G2 E E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta  |                              |                           | S2           | G2           |               |                |
| Gastrocopta cristata Gastrocopta pellucida Slim Snaggletooth S1 G5 Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Leptodea leptodon Scaleshell S1 G1G2 E E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta  | _                            | Proserpine Cavesnail      | <b>S</b> 1   | G1           |               |                |
| Gastrocopta pellucida Hendersonia occulta Cherrystone Snail S3 G4 Lampsilis abrupta Pink Mucket S2 G2 E E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Leptodea leptodon Scaleshell S1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg Marstonia scalariformis Moss Pyrg Micromenetus sampsoni Millerelix deltoidea Oklahoma Liptooth SU Ozork Whitelip S3 G3G4 Patera perigrapta Engraved Bladetooth S2 G5 E E E C E C C C C C C C C C C C C C C   |                              | _                         | <b>S</b> 1   | G5           |               |                |
| Hendersonia occulta Lampsilis abrupta Pink Mucket S2 G2 E E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E E Leptodea leptodon Scaleshell S1 G1G2 E E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta   | _                            |                           | <b>S</b> 1   | G5           |               |                |
| Lampsilis abrupta Pink Mucket S2 G2 E E E Lampsilis brittsi Northern Brokenray S3 G4T3 Lampsilis higginsii Higgins Eye S1 G1G2 E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3C4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta   |                              |                           | <b>S</b> 3   | G4           |               |                |
| Lampsilis brittsi Northern Brokenray S3 G4T3  Lampsilis higginsii Higgins Eye S1 G1G2 E E  Lampsilis rafinesqueana Neosho Mucket S2 G2 E E  Leptodea leptodon Scaleshell S1 G1G2 E E  Leptoxis arkansensis Arkansas Mudalia S1 G1  Ligumia recta Black Sandshell S2 G4G5  Lioplax sulculosa Furrowed Lioplax S1 G5  Margaritifera monodonta Spectaclecase S3 G3 E E  Marstonia ozarkensis Ozark Pyrg SH G1  Marstonia scalariformis Moss Pyrg S1 G1  Mesodon mitchellianus Sealed Goblet S1 G4  Micromenetus sampsoni Sampson Sprite S2 G2G3Q  Millerelix deltoidea Oklahoma Liptooth SU G2  Neohelix divesta Ozark Whitelip S3 G3G4  Obovaria arkansasensis Southern Hickorynut S1 GNR  Obovaria olivaria Hickorynut S3 G4  Patera perigrapta Engraved Bladetooth S2 G5   | Lampsilis abrupta            | <u> </u>                  |              | G2           | E             | E              |
| Lampsilis higginsii Higgins Eye S1 G1G2 E E E Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 G1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta  |                              | Northern Brokenray        | <b>S</b> 3   | G4T3         |               |                |
| Lampsilis rafinesqueana Neosho Mucket S2 G2 E E Leptodea leptodon Scaleshell S1 G1G2 E E Leptoxis arkansensis Arkansas Mudalia S1 Ligumia recta Black Sandshell S2 G4G5 Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GRNR Obovaria olivaria Hickorynut Engraved Bladetooth S2 G5 E E E  Arstonia G1G2 E E E E C G1G3C  E E E C G1G3C  E E E C G1G3C  E E E C G4  F E C G4  F C G2  G2G3C  G3G4  G3G4  G3G4  G4  F C G4  F C GA  GA  GA  GA  GA  GA  GA  GA  GA  G   | _                            | Higgins Eye               | <b>S</b> 1   | G1G2         | E             | E              |
| Leptodea leptodonScaleshellS1G1G2EELeptoxis arkansensisArkansas MudaliaS1G1Ligumia rectaBlack SandshellS2G4G5Lioplax sulculosaFurrowed LioplaxS1G5Margaritifera monodontaSpectaclecaseS3G3EEMarstonia ozarkensisOzark PyrgSHG1Marstonia scalariformisMoss PyrgS1G1Mesodon mitchellianusSealed GobletS1G4Micromenetus sampsoniSampson SpriteS2G2G3QMillerelix deltoideaOklahoma LiptoothSUG2Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5   |                              | Neosho Mucket             | S2           | G2           | E             | E              |
| Leptoxis arkansensis  Arkansas Mudalia  S1  G1  Ligumia recta  Black Sandshell  S2  G4G5  Lioplax sulculosa  Furrowed Lioplax  S1  G5  Margaritifera monodonta  Spectaclecase  S3  G3  E  E  Marstonia ozarkensis  Ozark Pyrg  SH  G1  Marstonia scalariformis  Moss Pyrg  S1  G3  Mesodon mitchellianus  Sealed Goblet  S1  G4  Micromenetus sampsoni  Sampson Sprite  S2  G2G3Q  Millerelix deltoidea  Oklahoma Liptooth  SU  G2  Neohelix divesta  Ozark Whitelip  S3  G3G4  Obovaria arkansasensis  Southern Hickorynut  S1  GNR  Obovaria olivaria  Hickorynut  S2  G5  |                              | Scaleshell                | <b>S</b> 1   | G1G2         | E             | E              |
| Ligumia recta Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU Obovaria arkansasensis Southern Hickorynut S3 G4 Patera perigrapta  Black Sandshell S2 G4G5  E E  E  E  E  E  E  E  E  E  E  E  E   |                              | Arkansas Mudalia          | <b>S</b> 1   |              |               |                |
| Lioplax sulculosa Furrowed Lioplax S1 G5 Margaritifera monodonta Spectaclecase S3 G3 E E Marstonia ozarkensis Ozark Pyrg SH G1 Marstonia scalariformis Moss Pyrg S1 G1 Mesodon mitchellianus Sealed Goblet S1 G4 Micromenetus sampsoni Sampson Sprite S2 G2G3Q Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta Engraved Bladetooth S2 G3 G3 E E E  | _                            | Black Sandshell           | S2           | G4G5         |               |                |
| Margaritifera monodontaSpectaclecaseS3G3EEMarstonia ozarkensisOzark PyrgSHG1Marstonia scalariformisMoss PyrgS1G1Mesodon mitchellianusSealed GobletS1G4Micromenetus sampsoniSampson SpriteS2G2G3QMillerelix deltoideaOklahoma LiptoothSUG2Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5   | =                            | Furrowed Lioplax          | <b>S</b> 1   | G5           |               |                |
| Marstonia ozarkensisOzark PyrgSHG1Marstonia scalariformisMoss PyrgS1G1Mesodon mitchellianusSealed GobletS1G4Micromenetus sampsoniSampson SpriteS2G2G3QMillerelix deltoideaOklahoma LiptoothSUG2Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5   | -                            | <u>*</u>                  |              |              | E             | E              |
| Mesodon mitchellianusSealed GobletS1G4Micromenetus sampsoniSampson SpriteS2G2G3QMillerelix deltoideaOklahoma LiptoothSUG2Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5   | =                            | Ozark Pyrg                | SH           | G1           |               |                |
| Micromenetus sampsoniSampson SpriteS2G2G3QMillerelix deltoideaOklahoma LiptoothSUG2Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5   | Marstonia scalariformis      | Moss Pyrg                 | <b>S</b> 1   | G1           |               |                |
| Millerelix deltoidea Oklahoma Liptooth SU G2 Neohelix divesta Ozark Whitelip S3 G3G4 Obovaria arkansasensis Southern Hickorynut S1 GNR Obovaria olivaria Hickorynut S3 G4 Patera perigrapta Engraved Bladetooth S2 G5  | Mesodon mitchellianus        |                           | <b>S</b> 1   | G4           |               |                |
| Millerelix deltoideaOklahoma LiptoothSUG2Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5   |                              |                           |              | G2G3Q        |               |                |
| Neohelix divestaOzark WhitelipS3G3G4Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5  | =                            |                           |              | _            |               |                |
| Obovaria arkansasensisSouthern HickorynutS1GNRObovaria olivariaHickorynutS3G4Patera perigraptaEngraved BladetoothS2G5  | Neohelix divesta             | _                         |              |              |               |                |
| Obovaria olivaria Hickorynut S3 G4 Patera perigrapta Engraved Bladetooth S2 G5   | Obovaria arkansasensis       | -                         |              |              |               |                |
| Patera perigrapta Engraved Bladetooth S2 G5  |                              | •                         |              |              |               |                |
|  |                              |                           |              |              |               |                |
| Plectomerus dombeyanus Bankclimber S3 G5   |                              | _                         |              |              |               |                |
| Plethobasus cyphyus Sheepnose S2 G3 E E  |                              |                           |              |              | E             | Е              |

| SCIENTIFIC NAME             | COMMON NAME                          | SRANK      | <u>GRANK</u> | STATE<br>STATUS | FEDERAL<br>STATUS |
|-----------------------------|--------------------------------------|------------|--------------|-----------------|-------------------|
| MOLLUSKS (Cont.)            |                                      |            |              |                 |                   |
| Pleurocera alveare          | Rugged Hornsnail                     | S1S3       | G3           | _               | _                 |
| Potamilus capax             | Fat Pocketbook                       | S1         | G2           | E               | E                 |
| Ptychobranchus occidentalis | Ouachita Kidneyshell                 | S3         | G3G4         | _               | _                 |
| Quadrula fragosa            | Winged Mapleleaf                     | <b>S</b> 1 | G1           | E               | E                 |
| Reginaia ebenus             | Ebonyshell                           | S1         | G4G5         | E               |                   |
| Simpsonaias ambigua         | Salamander Mussel                    | <b>S</b> 1 | G3           | E               |                   |
| Somatogyrus depressus       | Sandbar Pebblesnail                  | S2         | G2           |                 |                   |
| Somatogyrus rosewateri      | Elk Pebblesnail                      | <b>S</b> 1 | G1           |                 |                   |
| Stagnicola elodes           | Marsh Pondsnail                      | S2         | G5           |                 |                   |
| Stenotrema stenotrema       | Inland Slitmouth                     | S3         | G5           |                 |                   |
| Strobilops affinis          | Eightfold Pinecone                   | S2         | G4           |                 |                   |
| Theliderma cylindrica       | Rabbitsfoot                          | S1         | G3G4         | E               | T                 |
| Toxolasma lividum           | Purple Lilliput                      | S1         | G3Q          |                 |                   |
| Toxolasma texasiense        | Texas Lilliput                       | S3         | G4           |                 |                   |
| Triodopsis cragini          | Post Oak Threetooth                  | SH         | G4           |                 |                   |
| Utterbackiana suborbiculata | Flat Floater                         | S2         | G5           |                 |                   |
| Ventridens demissus         | Perforate Dome                       | SU         | G5           |                 |                   |
| Vertigo oscariana           | Capital Vertigo                      | <b>S</b> 1 | G4           |                 |                   |
| Villosa lienosa             | Little Spectaclecase                 | S3         | G5           |                 |                   |
| Zonitoides limatulus        | Dull Gloss                           | <b>S</b> 1 | G4G5         |                 |                   |
| Total Mollusk Records: 59   |                                      |            |              |                 |                   |
|                             |                                      |            |              |                 |                   |
| ARACHNIDS                   |                                      |            |              |                 |                   |
| Apochthonius mysterius      | Mystery Cave<br>Pseudoscorpion       | S1         | G1G2         |                 |                   |
| Apochthonius typhlus        | Stone County Cave<br>Pseudoscorpion  | S1         | G1G2         |                 |                   |
| Hesperochernes occidentalis | Guano Pseudoscorpion                 | S3         | G5           |                 |                   |
| Mundochthonius cavernicolus | Cavernicolous Pseudoscorpion         | SU         | G1G2         |                 |                   |
| Phanetta subterranea        | Subterranean Cave Spider             | S1         | G5           |                 |                   |
| Porrhomma cavernicola       | Cavernicolous Porrhomma Spider       | S2         | G5           |                 |                   |
| Total Arachnid Records: 6   |                                      |            |              |                 |                   |
| CRUSTACEANS                 |                                      |            |              |                 |                   |
| Allocrangonyx hubrichti     | Hubricht's Long-tailed<br>Amphipod   | S3         | G2G3         |                 |                   |
| Bactrurus brachycaudus      | Short-tailed Groundwater<br>Amphipod | S4         | G4           |                 |                   |
| Bactrurus hubrichti         | Sword-tail Cave<br>Amphipod          | S1         | G4           |                 |                   |
| Bactrurus pseudomucronatus  | False Sword-tailed Cave<br>Amphipod  | S2         | G2G3         |                 |                   |
| Brackenridgia ashleyi       | Ashley's Isopod                      | S2         | G1G3         |                 |                   |
| Caecidotea antricola        | A Cave Obligate Isopod               | S4         | G5           |                 |                   |
| Caecidotea dimorpha         | An Isopod                            | S1S3       | G2G3         |                 |                   |
| Caecidotea fustis           | Fustis Cave Isopod                   | S2         | G2G3         |                 |                   |
| Caecidotea salemensis       | Salem Cave Isopod                    | S2         | G4           |                 |                   |

| SCIENTIFIC NAME CRUSTACEANS (Cont.)                | COMMON NAME                       | <u>SRANK</u> | <u>GRANK</u> | STATE<br>STATUS | FEDERAL<br>STATUS |
|--|-----------------------------------|--------------|--------------|-----------------|-------------------|
| Caecidotea stiladactyla                            | Slender-fingered Cave<br>Isopod   | <b>S</b> 1   | G3G4         |                 |                   |
| Caecidotea serrata                                 | Serrated Cave Isopod              | S1           | G1G2         |                 |                   |
| Caecidotea stygia                                  | Stygian Cave Isopod               | <b>S</b> 1   | G5           |                 |                   |
| Cambarellus puer                                   | Swamp Dwarf Crayfish              | S3?          | G5           |                 |                   |
| Cambarellus shufeldtii                             | Cajun Dwarf Crayfish              | S3?          | G5           |                 |                   |
| Cambarus aculabrum                                 | Benton County Cave<br>Crayfish    | SP           | G1           |                 |                   |
| Cambarus hubrichti                                 | Salem Cave Crayfish               | S3           | G4           |                 |                   |
| Cambarus ludovicianus                              | Painted Devil Crayfish            | SU           | G5           |                 |                   |
| Cambarus maculatus                                 | Freckled Crayfish                 | S3           | G4           |                 |                   |
| Cambarus polychromatus                             | Paintedhand Mudbug                | S1S2         | G5           |                 | E                 |
| Cambarus setosus                                   | Bristly Cave Crayfish             | S3           | G3           |                 |                   |
| Diacyclops yeatmani                                | Yeatman's Groundwater<br>Copepod  | S1S3         | G2G3         |                 |                   |
| Fallicambarus fodiens                              | Digger Crayfish                   | S2S3         | G5           |                 |                   |
| Faxonella clypeata                                 | Ditch Fencing Crayfish            | S2S3         | G5           |                 |                   |
| Lirceus megapodus                                  | An Isopod                         | SU           | GNR          |                 |                   |
| Macrobrachium ohione                               | Ohio Shrimp                       | <b>S</b> 1   | G4           |                 |                   |
| Orconectes eupunctus                               | Coldwater Crayfish                | S1           | G2           |                 |                   |
| Orconectes harrisonii                              | Belted Crayfish                   | S3           | G3           |                 |                   |
| Orconectes lancifer                                | Shrimp Crayfish                   | S1S2         | G5           |                 |                   |
| Orconectes marchandi                               | Mammoth Spring<br>Crayfish        | S1S2         | G2           |                 |                   |
| Orconectes medius                                  | Saddleback Crayfish               | S3?          | G4           |                 |                   |
| Orconectes meeki meeki                             | Meek Crayfish                     | <b>S</b> 1   | G4T4         |                 |                   |
| Orconectes peruncus                                | Big Creek Crayfish                | S2           | G2           |                 |                   |
| Orconectes quadruncus                              | St. Francis River Crayfish        | S2           | G2           |                 |                   |
| Orconectes stygocaneyi                             | Caney Mountain Cave<br>Crayfish   | S1           | G1           |                 |                   |
| Orconectes williamsi                               | Williams' Crayfish                | S2           | G3           |                 |                   |
| Procambarus viaeviridis                            | Vernal Crayfish                   | S3?          | G5           |                 |                   |
| Stygobromus barri                                  | Barr's Groundwater<br>Amphipod    | S1S3         | G2G3         |                 |                   |
| Stygobromus clantoni                               | Clanton's Groundwater<br>Amphipod | S1S3         | G4           |                 |                   |
| Stygobromus heteropodus                            | Pickle Springs Amphipod           | SX           | G1G2         |                 |                   |
| Stygobromus onondagaensis                          | Onondaga Cave<br>Amphipod         | S3?          | G3           |                 |                   |
| Stygobromus ozarkensis                             | Ozark Cave Amphipod               | S3?          | G4           |                 |                   |
| Stygobromus subtilis                               | Subtle Groundwater<br>Amphipod    | S1S3         | G2           |                 |                   |
| Triops longicaudatus  Total Crustacean Records: 43 | Longtail Tadpole Shrimp           | SU           | G5           |                 |                   |
| MILLIPEDES   |                                   |              |              |                 |                   |
| Causeyella dendropus                               | Causeyella Cave<br>Millipede      | S2           | G1G3         |                 |                   |
| Chaetaspis aleyorum                                | Aleys' Cave Millipede             | S1           | G1           |                 |                   |

|                                   |                                    |              |              | STATE FEDERAL |
|-----------------------------------|------------------------------------|--------------|--------------|---------------|
| SCIENTIFIC NAME                   | <b>COMMON NAME</b>                 | <b>SRANK</b> | <b>GRANK</b> | STATUS STATUS |
| MILLIPEDES (Cont.)                |                                    |              |              |               |
| Tingupa pallida                   | Tingupa Cave Millipede             | S4           | G4           |               |
| Zosteractis interminata           | Zosteractis Cave<br>Millipede      | SU           | G2G3         |               |
| Total Millipede Records: 4        |                                    |              |              |               |
| INSECTS                           |                                    |              |              |               |
| Acroneuria ozarkensis             | Ozark Stone                        | S2           | G2           |               |
| Agapetus artesus                  | Artesian Agapetus<br>Caddisfly     | S3           | G3           |               |
| Aleochara speculicollis           | A Staphylinid Beetle               | SU           | GNR          |               |
| Allocapnia pygmaea                | Pygmy Snowfly                      | <b>S</b> 3   | G5           |               |
| Alloperla hamata                  | Barbed Sallfly                     | <b>S</b> 3   | G4           |               |
| Alloperla leonarda                | Truncate Sallfly                   | <b>S</b> 3   | G4           |               |
| Amblyscirtes linda                | Linda's Roadside Skipper           | S2S3         | G2G3         |               |
| Amblytropidia mysteca             | A Glade Grasshopper                | SU           | G5           |               |
| Amphiagrion saucium               | Eastern Red Damsel                 | S2           | G5           |               |
| Andrena beameri                   | An Andrenid Bee                    | <b>S</b> 3   | GNR          |               |
| Argia alberta                     | Paiute Dancer                      | <b>S</b> 1   | G4           |               |
| Arigomphus maxwelli               | Bayou Clubtail                     | SU           | G5           |               |
| Arrhopalites clarus               | Clarus Cave Springtail             | <b>S</b> 3   | G4           |               |
| Attaneuria ruralis                | Giant Stone                        | <b>S</b> 3   | G4           |               |
| Baetisca obesa                    | A Mayfly                           | <b>S</b> 3   | G5           |               |
| Beameria venosa                   | A Concealed-tymbal<br>Cicada       | <b>S</b> 3   | GNR          |               |
| Bibloplectus chickasaw            | A Staphylinid Beetle               | SU           | GNR          |               |
| Bombus affinis                    | Rusty Belt Bumblebee               | SU           | G1           |               |
| Bombus fervidus                   | Yellow Bumblebee                   | S1           | G4?          |               |
| Calephelis borealis               | Northern Metalmark                 | <b>S</b> 1   | G3G4         |               |
| Calephelis muticum                | Swamp Metalmark                    | S3           | G3           |               |
| Catocala marmorata                | Marbled Underwing Moth             | <b>S</b> 3   | G3G4         |               |
| Catocala pretiosa texarkana       | Precious Underwing Moth            | S3?          | G4T4         |               |
| Ceratopsyche piatrix              | A Net-spinning Caddisfly           | S4           | G4           |               |
| Chalybion zimmermanni zimmermanni | A Blue Mud Dauber                  | SU           | GNRTNR       |               |
| Conocephalus saltans              | Prairie Meadow Katydid             | S3           | G5           |               |
| Cylindera celeripes               | Swift Tiger Beetle                 | <b>S</b> 1   | G2G4         |               |
| Deinopsis virginiana              | A Staphylinid Beetle               | SU           | GNR          |               |
| Derops divalis                    | A Staphylinid Beetle               | S3           | GNR          |               |
| Dichagyris reliqua                | A Noctuid Moth                     | <b>S</b> 1   | G2G3         |               |
| Dromochrous pruinina              | Loamy-ground Tiger<br>Beetle       | S1           | G3G4         |               |
| Euphyes dukesi                    | Duke's Skipper                     | <b>S</b> 1   | G3           |               |
| Formica creightoni                | Creighton's Slavemaking<br>Ant     | <b>S</b> 3   | GNR          |               |
| Formica fossaceps                 | Haystack Thatching Ant             | S1           | GNR          |               |
| Formica querquetulana             | Oak-grove Ant                      | S1           | GNR          |               |
| Gennadota canadensis              | A Staphylinid Beetle               | SU           | GNR          |               |
| Glyphopsyche missouri             | Missouri Glyphopsyche<br>Caddisfly | S1           | G1           |               |

|  |   |              |              | STATE         | FEDERAL       |
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| SCIENTIFIC NAME<br>INSECTS (Cont.)     | COMMON NAME                             | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| Gomphus fraternus                      | Midland Clubtail                        | SU           | G5           |               |               |
| Gomphus ventricosus                    | Skillet Clubtail                        | SU           | G3           |               |               |
| Gryllotalpa major                      | Prairie Mole Cricket                    | S3           | G3           |               |               |
| Habroscelimorpha circumpicta johnsonii | Saline Spring Tiger Beetle              | S1           | G5T5         |               |               |
| Hesperia ottoe                         | Ottoe Skipper                           | <b>S</b> 1   | G3G4         |               |               |
| Hesperus stehri                        | A Staphylinid Beetle                    | SU           | GNR          |               |               |
| Hydroperla fugitans                    | Austin Springfly                        | <b>S</b> 3   | G3           |               |               |
| Inscudderia taxodii                    | Bald Cypress Katydid                    | <b>S</b> 1   | GNR          |               |               |
| Isoperla burksi                        | Banded Stripetail                       | <b>S</b> 3   | G4           |               |               |
| Isoperla longiseta                     | Plains Stripetail                       | SX           | G5           |               |               |
| Lasia purpurata                        | Purple Small-headed Fly                 | SU           | GNR          |               |               |
| Leptysma marginicollis                 | Cattail Toothpick<br>Grasshopper        | S2S3         | G5           |               |               |
| Leucotrichia pictipes                  | A Micro Caddisfly                       | <b>S</b> 3   | G5           |               |               |
| Libellula auripennis                   | Golden-winged Skimmer                   | SU           | G5           |               |               |
| Lordithon niger                        | A Staphylinid Beetle                    | <b>S</b> 3   | GU           |               |               |
| Lytrosis permagnaria                   | Geometrid Moth                          | SU           | G3G4         |               |               |
| Maccaffertium bednariki                | A Heptageniid Mayfly                    | S3           | G2G4         |               |               |
| Melanoplus fasciatus                   | Huckleberry Grasshopper                 | S3           | G5           |               |               |
| Melanoplus impudicus                   | Immodest Grasshopper                    | <b>S</b> 3   | G4G5         |               |               |
| Melanoplus packardii                   | Packard's Grasshopper                   | S2           | G5           |               |               |
| Melanoplus punctulatus griseus         | Grizzly Grasshopper                     | SU           | G4T4         |               |               |
| Melanoplus viridipes viridipes         | Green-legged<br>Grasshopper             | S3           | G4           |               |               |
| Melissodes intorta                     | A Callirhoe Bee                         | <b>S</b> 1   | GNR          |               |               |
| Mermiria picta                         | Mermiria Grasshopper                    | <b>S</b> 3   | G5           |               |               |
| Merope tuber                           | A Meropid Scorpionfly                   | S3           | G3G5         |               |               |
| Metaleptea brevicornis                 | Short-horned Grasshopper                | S4           | G5           |               |               |
| Nehalennia gracilis                    | Sphagnum Sprite                         | S1?          | G5           |               |               |
| Nehalennia irene                       | Sedge Sprite                            | <b>S</b> 1   | G5           |               |               |
| Neoconocephalus exiliscanorus          | Slightly-musical<br>Conehead Katydid    | S3           | GNR          |               |               |
| Neoconocephalus lyristes               | Bog Conehead Katydid                    | S1           | GNR          |               |               |
| Neoperla carlsoni                      | Spiny Stone                             | S3?          | G5           |               |               |
| Neotrichia kitae                       | Kite's Neotrichian<br>Caddsifly         | SU           | GU           |               |               |
| Neotridactylus apicialis               | Larger Pygmy<br>Grasshopper             | SU           | GNR          |               |               |
| Nicrophorus americanus                 | American Burying Beetle                 | SH           | G2G3         | E             | E             |
| Ochrotrichia contorta                  | Contorted Ochrotrichian Micro Caddisfly | SU           | G1G2         |               |               |
| Oecleus chrisjohni                     | A Cixiid Planthopper                    | SU           | GNR          |               |               |
| Oncopodura hoffi                       | Hoff's Cave Springtail                  | S1S3         | G1G2         |               |               |
| Oxybleptes kiteleyi                    | A Staphylinid Beetle                    | SU           | GNR          |               |               |
| Papilio joanae                         | Ozark Woodland<br>Swallowtail           | SU           | G3           |               |               |
| Pardalophora saussurei                 | A Glade Grasshopper                     | SU           | G5           |               |               |
| Paroxya hoosieri                       | Hoosier Grasshopper                     | S1           | G5           |               |               |

| SCIENTIFIC NAME                              | COMMON NAME                         | <u>SRANK</u> | <u>GRANK</u> | STATE<br>STATUS | FEDERAL<br>STATUS |
|--|-------------------------------------|--------------|--------------|-----------------|-------------------|
| INSECTS ( <i>Cont.</i> ) Pentacora signoreti | A Chora Dua                         | S1           | GNR          |                 |                   |
| Phoetaliotes nebrascensis                    | A Shore Bug<br>Large-headed         | S3           | GNK<br>G5    |                 |                   |
|  | Grasshopper                         |              |              |                 |                   |
| Phrixocnemis truculentus                     | Truculent Camel Cricket             | SU           | GNR          |                 |                   |
| Phyllobrotica lengi                          | A Leaf Beetle                       | SU           | GNR          |                 |                   |
| Phyllobrotica nigritarsis                    | A Leaf Beetle                       | SU           | GNR          |                 |                   |
| Phyllobrotica physostegiae                   | A Leaf Beetle                       | S4?          | GNR          |                 |                   |
| Polyergus longicornis                        | Long-horned Shining<br>Amazon Ant   | S1           | GNR          |                 |                   |
| Polyergus montivagus                         | Foothills Shining Amazon<br>Ant     | S1           | GNR          |                 |                   |
| Polyergus ruber                              | Ruby-red Shining<br>Amazon Ant      | <b>S</b> 1   | GNR          |                 |                   |
| Polyergus sanwaldi                           | Sanwald's Shining                   | S1           | GNR          |                 |                   |
| Prostoia similis                             | Amazon Ant Longhorn Forestfly       | <b>S</b> 3   | G5           |                 |                   |
| Pseudomasaris occidentalis                   | A Pollen Wasp                       | S3           | GNR          |                 |                   |
|  | Espana Cave Springtail              | S3           | G2G3         |                 |                   |
| Pseudosinella espana Psinidia fenestralis    | Sand Grasshopper                    | S2S3         | G2G3<br>G5   |                 |                   |
|  | **                                  |              |              |                 |                   |
| Satyrodes appalachia leeuwi                  | Appalachian Eyed Brown              | S1           | G4T4         |                 |                   |
| Sepedophilus campbelli                       | A Staphylinid Beetle                | SU           | GNR          |                 |                   |
| Serratella frisoni                           | Frison's Seratellan Mayfly          | S2           | G4           |                 |                   |
| Sinella avita                                | Avita Cave Springtail               | SU           | G3G4         |                 |                   |
| Sinella barri                                | Barr's Cave Springtail              | SU           | G5           | -               | -                 |
| Somatochlora hineana                         | Hine's Emerald                      | S2           | G2G3         | E               | E                 |
| Somatochlora ozarkensis                      | Ozark Emerald                       | SU           | G3           |                 |                   |
| Somatochlora provocans                       | Treetop Emerald                     | S1           | G4           |                 |                   |
| Speyeria diana                               | Diana Fritillary                    | SA           | G3G4         |                 |                   |
| Speyeria idalia                              | Regal Fritillary                    | S3           | G3           |                 |                   |
| Stethophyma celatum                          | Sedge Grasshopper                   | S3           | G4           |                 |                   |
| Stylurus intricatus                          | Brimstone Clubtail                  | S1S2         | G4           |                 |                   |
| Stylurus notatus                             | Elusive Clubtail                    | S2S3         | G3           |                 |                   |
| Telebasis byersi                             | Duckweed Firetail                   | S1           | G5           |                 |                   |
| Telebasis salva                              | Desert Firetail                     | SU           | G5           |                 |                   |
| Tettigidea armata                            | Spined Grouse Locust                | S2S3         | G5           |                 |                   |
| Tomocerus missus                             | Missus Cave Springtail              | SU           | G4           |                 |                   |
| Trimerotropis maritima                       | Seaside Grasshopper                 | SH           | G5           |                 |                   |
| Xenochalepus potomaca                        | A Leaf Beetle                       | SU           | GNR          |                 |                   |
| Xenotrechus condei                           | Northern Xenotrechus<br>Cave Beetle | S1           | G1G2         |                 |                   |
| Xenotrechus denticollis                      | Southern Xenotrechus<br>Cave Beetle | <b>S</b> 1   | G1G2         |                 |                   |
| Xylodromus capito                            | A Staphylinid Beetle                | SU           | GNR          |                 |                   |
| Total Insect Records: 114                    |                                     |              |              |                 |                   |
| FISH   |                                     |              |              |                 |                   |
| Acipenser fulvescens                         | Lake Sturgeon                       | S1           | G3G4         | E               |                   |
| Alosa alabamae                               | Alabama Shad                        | S2           | G2G3         |                 |                   |
| Alosa chrysochloris                          | Skipjack Herring                    | SU           | G5           |                 |                   |

|  |                                   | a            | a=           | STATE         | FEDERAL       |
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| SCIENTIFIC NAME                        | COMMON NAME                       | <u>SRANK</u> | <u>GRANK</u> | <u>STATUS</u> | <u>STATUS</u> |
| FISH (Cont.)                           | Ozark Cavefish                    | S2           | G3           | Е             | T             |
| Amblyopsis rosae Ameiurus nebulosus    | Brown Bullhead                    | S3?          | G5           | E             | 1             |
|  | Western Sand Darter               | S2S3         | G3           |               |               |
| Ammocrypta clara                       |                                   | S2S3<br>S3   | G5           |               |               |
| Ammocrypta vivax                       | Scaly Sand Darter<br>American Eel | SU           | G3<br>G4     |               |               |
| Anguilla rostrata                      |                                   | SU<br>S1     | G3G4         |               |               |
| Atractosteus spatula Carpiodes velifer | Alligator Gar                     | S1<br>S2     | G3G4<br>G4G5 |               |               |
| 1                                      | Highfin Carpsucker                | S2<br>S3     |              |               |               |
| Centrarchus macropterus                | Flier                             | S3<br>S1     | G5<br>G2     |               | E             |
| Courts Havis assemble                  | Grotto Sculpin                    |              |              | E             | E             |
| Crystallaria asprella                  | Crystal Darter                    | S1           | G3           | E             |               |
| Cyprinella camura                      | Bluntface Shiner                  | S2S3         | G5           |               |               |
| Erimyzon sucetta                       | Lake Chubsucker                   | S2           | G5           |               |               |
| Etheostoma cragini                     | Arkansas Darter                   | S3S4         | G3G4         |               |               |
| Etheostoma euzonum erizonum            | Current Saddled Darter            | S3           | G3G4T3T4     |               |               |
| Etheostoma euzonum euzonum             | Arkansas Saddled Darter           | S2           | G3G4T3T4     | _             |               |
| Etheostoma fusiforme                   | Swamp Darter                      | S1           | G5           | E             |               |
| Etheostoma histrio                     | Harlequin Darter                  | S2           | G5           | E             |               |
| Etheostoma microperca                  | Least Darter                      | S2           | G5           |               |               |
| Etheostoma nianguae                    | Niangua Darter                    | S2           | G2           | E             | T             |
| Etheostoma parvipinne                  | Goldstripe Darter                 | <b>S</b> 1   | G4G5         | E             |               |
| Etheostoma whipplei                    | Redfin Darter                     | S1           | G4           | E             |               |
| Forbesichthys agassizii                | Spring Cavefish                   | <b>S</b> 1   | G4           | E             |               |
| Fundulus chrysotus                     | Golden Topminnow                  | <b>S</b> 1   | G5           |               |               |
| Fundulus dispar                        | Starhead Topminnow                | S2           | G4           |               |               |
| Fundulus kansae                        | Northern Plains Killifish         | S2           | G5           |               |               |
| Fundulus sciadicus                     | Plains Topminnow                  | S3           | G4           |               |               |
| Hybognathus argyritis                  | Western Silvery Minnow            | S2           | G4           |               |               |
| Hybognathus hankinsoni                 | Brassy Minnow                     | S3           | G5           |               |               |
| Hybognathus hayi                       | Cypress Minnow                    | <b>S</b> 1   | G4G5         | E             |               |
| Hybognathus nuchalis                   | Mississippi Silvery<br>Minnow     | S3S4         | G5           |               |               |
| Hybognathus placitus                   | Plains Minnow                     | S2           | G4           |               |               |
| Hybopsis amnis                         | Pallid Shiner                     | SX           | G4           |               |               |
| Ichthyomyzon gagei                     | Southern Brook Lamprey            | S2S3         | G5           |               |               |
| Lepomis marginatus                     | Dollar Sunfish                    | S2           | G5           |               |               |
| Lepomis symmetricus                    | Bantam Sunfish                    | S2           | G5           |               |               |
| Lethenteron appendix                   | American Brook Lamprey            | S2           | G4           |               |               |
| Macrhybopsis gelida                    | Sturgeon Chub                     | S3           | G3           |               |               |
| Mugil cephalus                         | Striped Mullet                    | SA           | G5           |               |               |
| Notropis buchanani                     | Ghost Shiner                      | S2           | G5           |               |               |
| Notropis chalybaeus                    | Ironcolor Shiner                  | <b>S</b> 1   | G4           |               |               |
| Notropis heterolepis                   | Blacknose Shiner                  | S2           | G5           |               |               |
| Notropis maculatus                     | Taillight Shiner                  | S1           | G5           | Е             |               |
| Notropis ozarcanus                     | Ozark Shiner                      | S2           | G3           | _             |               |
| Notropis sabinae                       | Sabine Shiner                     | <b>S</b> 1   | G4           | Е             |               |
| Notropis texanus                       | Weed Shiner                       | S3           | G5           |               |               |
| Notropis topeka                        | Topeka Shiner                     | S1           | G3           | E             | Е             |
| 1 1 · · ·                              |                                   |              |              |               |               |

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|--------------------------------------|---------------------------|--------------|--------------|-----------------|-------------------|
| SCIENTIFIC NAME<br>FISH (Cont.)      | COMMON NAME               | <u>SRANK</u> | <b>GRANK</b> | STATE<br>STATUS | FEDERAL<br>STATUS |
| Noturus eleutherus                   | Mountain Madtom           | S1S2         | G4           | Е               |                   |
| Noturus flavater                     | Checkered Madtom          | S3S4         | G3G4         |                 |                   |
| Noturus placidus                     | Neosho Madtom             | S1           | G2           | E               | T                 |
| Opsopoeodus emiliae                  | Pugnose Minnow            | S4           | G5           |                 |                   |
| Percina copelandi                    | Channel Darter            | S3           | G4           |                 |                   |
| Percina cymatotaenia                 | Bluestripe Darter         | S2           | G2           |                 |                   |
| Percina nasuta                       | Longnose Darter           | S1           | G3           | Е               |                   |
| Percina shumardi                     | River Darter              | S3           | G5           |                 |                   |
| Percina uranidea                     | Stargazing Darter         | S2           | G3           |                 |                   |
| Percopsis omiscomaycus               | Trout-perch               | S1?          | G5           |                 |                   |
| Pimephales tenellus parviceps        | Eastern Slim Minnow       | S2S3         | G4T2T3       |                 |                   |
| Pimephales tenellus tenellus         | Western Slim Minnow       | S3           | G4T4         |                 |                   |
| Platygobio gracilis                  | Flathead Chub             | S1           | G5           | Е               |                   |
| Scaphirhynchus albus                 | Pallid Sturgeon           | S1           | G2           | E               | Е                 |
| Typhlichthys subterraneus            | Southern Cavefish         | S2S3         | G4           | -               | _                 |
| Umbra limi                           | Central Mudminnow         | S253         | G5           | Е               |                   |
| Total Fish Records: 65               | Contra Madminio W         | 51           | 0.5          | Z               |                   |
| AMPHIBIANS                           |                           |              |              |                 |                   |
| Ambystoma annulatum                  | Ringed Salamander         | S3           | G4           |                 |                   |
| Ambystoma talpoideum                 | Mole Salamander           | S2           | G5           |                 |                   |
| Ambystoma tigrinum                   | Eastern Tiger Salamander  | S3           | G5           |                 |                   |
| Amphiuma tridactylum                 | Three-toed Amphiuma       | S2           | G5           |                 |                   |
| Anaxyrus cognatus                    | Great Plains Toad         | S3           | G5           |                 |                   |
| Cryptobranchus alleganiensis         | Eastern Hellbender        | S1           | G3G4T3T4     | Е               |                   |
| alleganiensis                        |                           |              |              |                 | _                 |
| Cryptobranchus alleganiensis bishopi | Ozark Hellbender          | S1           | G3G4T2Q      | Е               | E                 |
| Eurycea spelaea                      | Grotto Salamander         | S2S3         | G4           |                 |                   |
| Hemidactylium scutatum               | Four-toed Salamander      | S4           | G5           |                 |                   |
| Lithobates areolatus circulosus      | Northern Crawfish Frog    | S3           | G4T4         |                 |                   |
| Lithobates pipiens                   | Northern Leopard Frog     | S2           | G5           |                 |                   |
| Lithobates sylvaticus                | Wood Frog                 | S3           | G5           |                 |                   |
| Pseudacris illinoensis               | Illinois Chorus Frog      | S2           | G3           |                 |                   |
| Scaphiopus holbrookii                | Eastern Spadefoot         | S2           | G5           |                 |                   |
| Total Amphibian Records: 14          |                           |              |              |                 |                   |
| REPTILES                             |                           |              |              |                 |                   |
| Cemophora coccinea copei             | Northern Scarletsnake     | S2S3         | G5T5         |                 |                   |
| Clonophis kirtlandii                 | Kirtland's Snake          | <b>S</b> 1   | G2           |                 |                   |
| Crotaphytus collaris                 | Eastern Collared Lizard   | S4           | G5           |                 |                   |
| Deirochelys reticularia miaria       | Western Chicken Turtle    | <b>S</b> 1   | G5T5         | E               |                   |
| Emydoidea blandingii                 | Blanding's Turtle         | <b>S</b> 1   | G4           | E               |                   |
| Farancia abacura reinwardtii         | Western Mudsnake          | S2           | G5T5         |                 |                   |
| Heterodon gloydi                     | Dusty Hog-nosed Snake     | <b>S</b> 1   | G3G4Q        |                 |                   |
| Heterodon nasicus                    | Plains Hog-nosed Snake    | SX           | G5           |                 |                   |
| Kinosternon flavescens               | Yellow Mud Turtle         | <b>S</b> 1   | G5           | E               |                   |
| Macrochelys temminckii               | Alligator Snapping Turtle | S2           | G3G4         |                 |                   |

| SCIENTIFIC NAME<br>REPTILES (Cont.)         COMMON NAME<br>Watersnake         SRANK<br>SX         GRANK<br>GS         STATUS         STATUS           Nerodia cyclopion         Mississippi Green<br>Watersnake         SX         G5         E         Image: Common SX GS         Image: Common SX GS |
|---|
| Nerodia cyclopion Mississippi Green Watersnake Opheodrys vernalis Smooth Greensnake SX G5 Pantherophis ramspotti Western Foxsnake S1 G5 Pantherophis rulpinus Eastern Foxsnake S1 G5 Phrynosoma cornutum Texas Horned Lizard S2 G4G5 Pituophis catenifer sayi Bullsnake SU G5T5 Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 Septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus carenatus Prairie Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga SX G5S  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Anhinga Anhinga Anhinga Anhinga Su G5 Anhinga anhinga Anhinga Anhinga Su G5 Aridea alba Great Egret S3 G5 Asio dus Long-cared Owl S2 G5 Asio otus Long-cared Owl SX G4 Bonasa umbellus Ruffed Grouse Suainsoni Swainsoni Swainsoni Swainsoni Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| Opheodrys vernalis  Smooth Greensnake SX G5 Pantherophis ramspotti Western Foxsnake S1 G5 Pantherophis vulpinus Eastern Foxsnake S1 G5 Phrynosoma cornutum Texas Horned Lizard S2 G4G5 Pituophis catenifer sayi Bullsnake Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 Septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus catenatus Frairie Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio oftus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Campephilus principalis Ivory-billed Woodpecker SX G1 G5 G4G5 G5 G5 G4 G5 G5 G5 G6 G6 G7   |
| Pantherophis ramspotti Western Foxsnake S1 G5 Pantherophis vulpinus Eastern Foxsnake S1 G5 Phrynosoma cornutum Texas Horned Lizard S2 G4G5 Pituophis catenifer sayi Bullsnake SU G5T5 Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 Obtusirostris Plestiodon septentrionalis Northern Prairie Skink S3 G5T5 Septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus catenatus Prairie Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl S2 G5 Asio otus Long-eared Owl SX G4 Bonasa umbellus Burrowing Owl SX G4 Bonasa umbellus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| Pantherophis vulpinus Eastern Foxsnake S1 G5 Phrynosoma cornutum Texas Horned Lizard S2 G4G5 Pituophis catenifer sayi Bullsnake SU G5T5 Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 obtusirostris Plestiodon septentrionalis Northern Prairie Skink S3 G5T5 septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus catenatus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 G1 E   |
| Phrynosoma cornutum Texas Horned Lizard S2 G4G5 Pituophis catenifer sayi Bullsnake SU G5T5 Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 Obtusirostris Plestiodon septentrionalis Northern Prairie Skink S3 G5T5 Septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl S2 G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| Pituophis catenifer sayi Bullsnake SU G5T5 Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 obtusirostris Plestiodon septentrionalis Northern Prairie Skink S3 G5T5 septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Ardea alba Great Egret S3 G5 Ario almmeus Short-eared Owl S2 G5 Asio flammeus Short-eared Owl S2 G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1  |
| Plestiodon obsoletus Great Plains Skink S2 G5 Plestiodon septentrionalis Southern Prairie Skink S3 G5T5 obtusirostris Plestiodon septentrionalis Northern Prairie Skink S3 G5T5 septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio otus Long-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| obtusirostris  Plestiodon septentrionalis   |
| Plestiodon septentrionalis septentrionalis Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria) Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Ardea alba Great Egret S3 G5 Asio otus Long-eared Owl S2 G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse Suminson's Hawk S2 G5 Campephilus principalis Vory-billed Woodpecker SX G1 E T  T  T  T  T  T  T  T  T  T  T  T  T  |
| Sistrurus catenatus Eastern Massasauga SX G3G4 E T Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria)  Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| Sistrurus tergeminus tergeminus Prairie Massasauga S1 GNR E  Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria)  Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E  |
| Total Reptile Records: 21  BIRDS (See Appendix A for Tracking Criteria)  Accipiter striatus Sharp-shinned Hawk S2 G5 Anhinga anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| Accipiter striatus  Anhinga Anhinga Anhinga SU G5  Antigone canadensis Sandhill Crane S1 G5  Ardea alba Great Egret S3 G5  Asio flammeus Short-eared Owl S2 G5  Asio otus Long-eared Owl SU G5  Athene cunicularia Burrowing Owl SX G4  Bonasa umbellus Ruffed Grouse SU G5  Botaurus lentiginosus American Bittern S1 G5 E  Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis  Sharp-shinned Hawk S2 G5  G5  E  E  E  E  E  E  E  E  E  E  E  E  E   |
| Anhinga anhinga Anhinga Anhinga SU G5 Antigone canadensis Sandhill Crane S1 G5 Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E  |
| Antigone canadensis  Antigone canadensis  Sandhill Crane  S1  G5  Ardea alba  Great Egret  S3  G5  Asio flammeus  Short-eared Owl  S2  G5  Asio otus  Long-eared Owl  SU  G5  Athene cunicularia  Burrowing Owl  SX  G4  Bonasa umbellus  Ruffed Grouse  SU  G5  Botaurus lentiginosus  American Bittern  S1  G5  E  Buteo swainsoni  Swainson's Hawk  S2  G5  Campephilus principalis  Ivory-billed Woodpecker  SX  G1  E  |
| Ardea alba Great Egret S3 G5 Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1  E  |
| Asio flammeus Short-eared Owl S2 G5 Asio otus Long-eared Owl SU G5 Athene cunicularia Burrowing Owl SX G4 Bonasa umbellus Ruffed Grouse SU G5 Botaurus lentiginosus American Bittern S1 G5 E Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E  |
| Asio otus  Athene cunicularia  Burrowing Owl  SX  G4  Bonasa umbellus  Ruffed Grouse  SU  G5  Botaurus lentiginosus  American Bittern  S1  G5  E  Buteo swainsoni  Swainson's Hawk  S2  G5  Campephilus principalis  Ivory-billed Woodpecker  SX  G1  E   |
| Athene cunicularia  Burrowing Owl  SX  G4  Bonasa umbellus  Ruffed Grouse  SU  G5  Botaurus lentiginosus  American Bittern  S1  G5  E  Buteo swainsoni  Swainson's Hawk  S2  G5  Campephilus principalis  Ivory-billed Woodpecker  SX  G1  E  |
| Bonasa umbellusRuffed GrouseSUG5Botaurus lentiginosusAmerican BitternS1G5EButeo swainsoniSwainson's HawkS2G5Campephilus principalisIvory-billed WoodpeckerSXG1E   |
| Botaurus lentiginosusAmerican BitternS1G5EButeo swainsoniSwainson's HawkS2G5Campephilus principalisIvory-billed WoodpeckerSXG1E   |
| Buteo swainsoni Swainson's Hawk S2 G5 Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
| Campephilus principalis Ivory-billed Woodpecker SX G1 E   |
|   |
| Carthia amaricana Brown Craanar CII C5  |
| Ceruna americana brown Creeper 50 G5  |
| Chlidonias niger Black Tern SX G4G5   |
| Circus hudsonius Northern Harrier S2 G5 E   |
| Cistothorus palustris Marsh Wren S3 G5  |
| Coragyps atratus Black Vulture S3 G5  |
| Corvus corax Common Raven SX G5   |
| Coturnicops noveboracensis Yellow Rail SU G4  |
| Cygnus buccinator Trumpeter Swan S1 G4  |
| Egretta caerulea Little Blue Heron S3 G5  |
| Egretta thula Snowy Egret S1 G5 E   |
| Elanoides forficatus Swallow-tailed Kite SX G5  |
| Empidonax minimus Least Flycatcher SU G5  |
| Falco peregrinus Peregrine Falcon S1 G4 E   |
| Gallinula galeata Common Gallinule S2 G5  |
| Geococcyx californianus Greater Roadrunner S3 G5  |
| Haliaeetus leucocephalus Bald Eagle S3 G5   |
| Ictinia mississippiensis Mississippi Kite S3 G5   |
| Ixobrychus exilis Least Bittern S3 G5   |
| Lanius ludovicianus Loggerhead Shrike S2 G4   |
| Laterallus jamaicensis Black Rail SU G3G4   |

|  |                                |              |              | <b>STATE</b>  | <b>FEDERAL</b> |
|--|--------------------------------|--------------|--------------|---------------|----------------|
| SCIENTIFIC NAME                                | COMMON NAME                    | <u>SRANK</u> | <u>GRANK</u> | <b>STATUS</b> | <u>STATUS</u>  |
| BIRDS ( <i>Cont.</i> ) Limnothlypis swainsonii | Swainson's Warbler             | S2           | G4           | Е             |                |
| Nycticorax nycticorax                          | Black-crowned Night-           | S2<br>S3     | G5           | Ľ             |                |
| Tycheolax hycheolax                            | heron                          | 33           | G5           |               |                |
| Pandion haliaetus                              | Osprey                         | S2           | G5           |               |                |
| Passerina ciris                                | Painted Bunting                | S3           | G5           |               |                |
| Peucaea aestivalis                             | Bachman's Sparrow              | S1           | G3           | E             |                |
| Picoides borealis                              | Red-cockaded                   | SX           | G3           |               | E              |
| Porzana carolina                               | Woodpecker<br>Sora             | S2           | G5           |               |                |
| Rallus elegans                                 | King Rail                      | S1           | G4           | E             |                |
| Rallus limicola                                | Virginia Rail                  | S2           | G5           | L             |                |
| Setophaga cerulea                              | Cerulean Warbler               | S2S3         | G3<br>G4     |               |                |
| Setophaga pensylvanica                         | Chestnut-sided Warbler         | SU           | G5           |               |                |
| Setophaga virens                               | Black-throated Green           | SU           | G5           |               |                |
| Setophaga virens                               | Warbler                        | 30           | 03           |               |                |
| Sitta pusilla                                  | Brown-headed Nuthatch          | SX           | G4           |               |                |
| Spinus pinus                                   | Pine Siskin                    | SU           | G5           |               |                |
| Sterna antillarum athalassos                   | Interior Least Tern            | <b>S</b> 1   | G4T2Q        | E             | E              |
| Tympanuchus cupido                             | Greater Prairie-chicken        | S1           | G4           | E             |                |
| Tyto alba                                      | Barn Owl                       | S3           | G5           |               |                |
| Vermivora bachmanii                            | Bachman's Warbler              | SX           | GH           |               | E              |
| Xanthocephalus xanthocephalus                  | Yellow-headed Blackbird        | S3           | G5           |               |                |
| Total Bird Records: 50                         |                                |              |              |               |                |
| MAMMALS  |                                |              |              |               |                |
| Bison bison                                    | American Bison                 | SX           | G4           |               |                |
| Canis lupus                                    | Gray Wolf                      | SX           | G5           |               | E              |
| Canis rufus                                    | Red Wolf                       | SX           | G1Q          |               | Е              |
| Cervus elaphus                                 | Elk or Wapiti                  | S?           | G5           |               |                |
| Corynorhinus rafinesquii                       | Rafinesque's Big-eared         | S1           | G3G4         |               |                |
| -  | Bat                            |              |              | _             | _              |
| Corynorhinus townsendii ingens                 | Ozark Big-eared Bat            | SX           | G3G4T1       | E             | Е              |
| Ictidomys tridecemlineatus                     | Thirteen-lined Ground Squirrel | S2           | G5           |               |                |
| Lasionycteris noctivagans                      | Silver-haired Bat              | S3           | G3G4         |               |                |
| Lasiurus seminolus                             | Seminole Bat                   | SA           | G5           |               |                |
| Lepus californicus                             | Black-tailed Jackrabbit        | <b>S</b> 1   | G5           | E             |                |
| Lepus townsendii                               | White-tailed Jackrabbit        | SX           | G5           |               |                |
| Mustela frenata                                | Long-tailed Weasel             | S3           | G5           |               |                |
| Mustela nivalis                                | Least Weasel                   | S3           | G5           |               |                |
| Myotis austroriparius                          | Southeastern Myotis            | S1           | G4           |               |                |
| Myotis grisescens                              | Gray Myotis                    | S3           | G4           | E             | E              |
| Myotis leibii                                  | Eastern Small-footed           | S2           | G4           |               |                |
| <b>3</b> **** ***                              | Myotis                         |              |              |               |                |
| Myotis lucifugus                               | Little Brown Myotis            | S2           | G3           |               |                |
| Myotis septentrionalis                         | Northern Long-eared<br>Myotis  | S1           | G1G2         | E             | T              |
| Myotis sodalis                                 | Indiana Myotis                 | <b>S</b> 1   | G2           | Е             | Е              |
| Ochrotomys nuttalli                            | Golden Mouse                   | S3           | G5           | _             | _              |
| _ in otonij s natami                           | _ 514411 1.10410               | ~~           |              |               |                |

|                               |                           |              |              | <b>STATE</b>  | <b>FEDERAL</b> |
|-------------------------------|---------------------------|--------------|--------------|---------------|----------------|
| SCIENTIFIC NAME               | COMMON NAME               | <b>SRANK</b> | <b>GRANK</b> | <b>STATUS</b> | <b>STATUS</b>  |
| MAMMALS (Cont.)               |                           |              |              |               |                |
| Oryzomys palustris            | Marsh Rice Rat            | SU           | G5           |               |                |
| Perimyotis subflavus          | Tri-colored Bat           | S2           | G2G3         |               |                |
| Perognathus flavescens        | Plains Pocket Mouse       | S1           | G5           |               |                |
| Peromyscus gossypinus         | Cotton Mouse              | S2           | G5           |               |                |
| Poliocitellus franklinii      | Franklin's Ground         | S2S3         | G5           |               |                |
|                               | Squirrel                  |              |              |               |                |
| Puma concolor                 | Mountain Lion             | SX           | G5           |               |                |
| Reithrodontomys montanus      | Plains Harvest Mouse      | S2           | G5           |               |                |
| Spilogale putorius interrupta | Plains Spotted Skunk      | S1           | G4T4         | E             |                |
| Sylvilagus aquaticus          | Swamp Rabbit              | S2           | G5           |               |                |
| Tadarida brasiliensis         | Brazilian Free-tailed Bat | SA           | G5           |               |                |
| Taxidea taxus                 | American Badger           | S3           | G5           |               |                |
|                               | _                         |              |              |               |                |

**Total Mammal Records: 31** 

**Total Records Processed: 1156** 

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#### **CRUSTACEANS**

#### **Taxonomic Authority:**

Committee on the Names of Crustaceans of the United States and Canada of the Crustacean Society and D. Turgeon. 2005. Common and scientific names of aquatic invertebrates from the United States and Canada: crustaceans. American Fisheries Society, Special Publication 31, Bethesda, Maryland.

#### For Additional Information:

Pflieger, W.L. 1996. The crayfishes of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 152 pp.

#### **INSECTS**

#### **Taxonomic Authority:**

Poole, R.W. and P. Gentili (Eds.). 1996-97. Nomina insecta nearctica. A checklist of the insects of North America. Entomological Information Services. Rockville, M.D. Four volumes.

#### **For Additional Information:**

Heitzman, J.R. and J.E. Heitzman. 1987. Butterflies and moths of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 385 pp.

#### **FISH**

#### **Taxonomic Authority:**

Page, L., E.J. Crossman, H. Espinosa-Perez, L.T. Findley, C.R. Gilbert, R.N. Lea, N.E. Mandrak, R.L. Mayden, and J.S. Nelson. 2013. Common and scientific names of fishes from the United States, Canada, and Mexico. Seventh edition. American Fisheries Society, Special Publication 34. Bethesda, Maryland.

#### For Additional Information:

Pflieger, W.L. 1997. The fishes of Missouri. Revised edition. Missouri Department of Conservation. Jefferson City, Missouri. 372 pp.

#### **AMPHIBIANS AND REPTILES**

#### **Taxonomic Authority:**

Crother, B.I. (ed) and Committee. 2014. Scientific and Standard English Names of Amphibians and Reptiles of North America North of Mexico, with comments regarding confidence in our understanding. Society for the Study of Amphibians and Reptiles. Web Access. September 2014, http://ssarherps.org/publications/north-american-checklist/north-american-checklist-of-scientific-and-common-names/.

#### **For Additional Information:**

Daniel, R.E. and B.S. Edmonds 2014. Atlas of Missouri Amphibians and Reptiles. Web Access. Sept 2014. http://atlas.moherp.org/pubs/atlas13d.pdf.

Johnson, T.R. 2000. The amphibians and reptiles of Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 400 pp.

#### **BIRDS**

#### **Taxonomic Authority:**

American Ornithologists' Union. 1998. Check-list of North American birds, 7th Edition. American Ornithologist's Union. Washington, D.C. 829 pp.

#### For Additional Information:

- Jacobs, R. 2001. Birds in Missouri. Missouri Department of Conservation. Jefferson City, Missouri. 375 pp.
- Jacobs, R. and J.D. Wilson. 1997. Missouri breeding bird atlas. Missouri Department of Conservation. Jefferson City, Missouri. 430 pp.
- National Geographic Society. 1987. Field guide to the birds of North America. Second edition. Washington, D.C. 464 pp.
- Robbins, M.B. and D.A. Esterla. 1992. Birds of Missouri: their distribution and abundance. University of Missouri Press. Columbia, Missouri. 399 pp.

#### **Taxonomic Authority:**

Wilson, D.E. & DeeAnn M. Reeder (editors). 2005. Mammal species of the world. A taxonomic and geographic reference (3rd ed), Johns Hopkins University Press, 2,142 pp.

#### **For Additional Information:**

- Boyles, J.G., J. Timpone, and L. Robbins. 2009. Bats of Missouri. Indiana State University Center for North American Bat Research and Conservation. p 60.
- Hall, E.R. 1981. The mammals of North America, 2nd edition. John Wiley & Sons, New York, 1181+ pp.
- Schwartz, C.W. and E.R. Schwartz. 2016. The wild mammals of Missouri, 3<sup>rd</sup> Revised edition. D.K. Fantz and V.L. Jackson (editors). University of Missouri Press. Columbia, Missouri. 426 pp.

#### FOR MORE INFORMATION

MDC collects and manages information on the location and status of species and natural communities of conservation concern throughout the state. The Missouri Natural Heritage Database is a repository for this information.

If you have information on the location or questions about the status of any element on this *Checklist*, please contact:

Natural Heritage Coordinator Missouri Department of Conservation P.O. Box 180 2901 W Truman Blvd Jefferson City, MO 65109 (573) 522-4115

If you are requesting information about any Element on this *Checklist* for the purposes of environmental review, please write:

Resource Science Division Missouri Department of Conservation P.O. Box 180 Jefferson City, MO 65109

You can also conduct an online Natural Heritage Review by submitting your information to https://naturalheritagereview.mdc.mo.gov/

#### **WEBPAGE**

This checklist is updated annually. The most current version is always available by contacting MDC, Resource Science Division. *Checklist* information is also available on MDC's website: http://mdc.mo.gov/145.

#### **CITATION**

An appropriate citation for this edition of the *Checklist* is:

Missouri Natural Heritage Program. 2018. Missouri species and communities of conservation concern checklist. Missouri Department of Conservation. Jefferson City, Missouri. pp. 56.

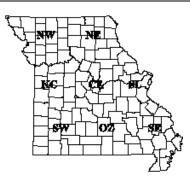
# APPENDIX A BIRD SPECIES TRACKED IN MONHP AND THEIR CRITERIA FOR EORS Updated October 5, 2016

| Species (ranks)                        | Regions                | Criteria (safe dates), comments      |
|--|------------------------|--------------------------------------|
| Anseriformes (Ducks, geese, swans)     |                        |                                      |
| Trumpeter Swan (S1, G4)                | All (NE, NW)           | 1                                    |
| Galliformes (chicken-like birds)       |                        |                                      |
| Ruffed Grouse (SU, G5)                 | CE, OZ, SL, SE         | 1                                    |
| Greater Prairie-chicken (S1, G4)       | SW, KC, NW, NE         | Anytime observed                     |
| Suliformes (anhinga)                   |                        |                                      |
| Anhinga (SX, G5)                       | SE                     | 1                                    |
| Pelecaniformes (herons, egrets,        |                        |                                      |
| storks, ibises)                        |                        |                                      |
| American Bittern (S1, G4)              | All                    | 1- extensive emergent marshes        |
| Least Bittern (S3, G5)                 | All                    | 1,2 (5/25-8/1)                       |
| Great Egret (S3, G5)                   | All (SE)               | 1                                    |
| Snowy Egret (S1, G5)                   | SE                     | 1                                    |
| Little Blue Heron (S3, G5)             | SE, SL                 | 1                                    |
| Black-crowned Night-Heron (S3, G5)     | All (SE)               | 1                                    |
| Accipitriformes (hawks, eagles, kites, |                        |                                      |
| vultures)                              |                        |                                      |
| Black Vulture (S3, G5)                 | OZ, SE                 | 1                                    |
| Osprey (S2, G5)                        | All (confirmed NE, SW) | 1- Any large open body of water      |
| Swallow-tailed Kite (SX, G5)           | SE                     | 1- Formerly SE, large rivers         |
| Mississippi Kite (S3, G5)              | All (SE, SL, NE)       | 1- Expanding range                   |
| Bald Eagle (S3, G4)                    | All                    | 1- Any large open body of water      |
| Northern Harrier (S2, G5)              | All (except OZ, SE)    | 1                                    |
| Sharp-shinned Hawk (S2, G5)            | All                    | 1                                    |
| Swainson's Hawk (S2, G5)               | SW, KC                 | 1                                    |
| Gruiformes (rails, cranes)             |                        |                                      |
| Yellow Rail (SU, G4)                   | All                    | Anytime observed (migrant)           |
| Black Rail (S1, G4)                    | All                    | Anytime observed, large marshes      |
| King Rail (S1, G4G5)                   | All (SE, SL, NE)       | 1,2 (5/30-7/31)                      |
| Virginia Rail (S2, G5)                 | All                    | 1,2 (5/15-8/1)                       |
| Sora (S2, G5)                          | All                    | 1,2 (5/30-7/31)                      |
| Common Gallinule (S2, G5)              | All (except OZ)        | 1,2 (5/30-8/31)                      |
| Sandhill Crane (S1, G5)                | NE, NW, CE, SL         | 1                                    |
| Charadriiformes (gulls, terns,         |                        |                                      |
| shorebirds)                            |                        |                                      |
| Interior Least Tern (S1, G4T2Q)        | SE                     | 1- Formerly along MS, MO Rivers      |
| Black Tern (SX, G4)                    | NW                     | 1                                    |
| Cuculiformes (cuckoos, roadrunners)    |                        |                                      |
| Greater Roadrunner (S3, G5)            | SW, OZ                 | 1                                    |
| Strigiformes (Owls)                    |                        |                                      |
| Barn Owl (S3, G5)                      | All (SE)               | 1,2 (5/25-8/15)                      |
| Burrowing Owl (SX, G4)                 | NW                     | 1                                    |
| Long-eared Owl (SU, G5)                | All                    | 1-Forests, dense thickets near water |
| Short-eared Owl (S2, G5)               | SW, NW, NE, KC         | 1,2 (5/1-8/31)                       |
| Piciformes (Woodpeckers)               |                        |                                      |
| Red-cockaded Woodpecker (SX, G3)       | OZ, SE                 | Anytime observed                     |
| Ivory-billed Woodpecker (SX, G1)       | All                    | Anytime observed                     |
| Falconiformes (falcons                 |                        | )                                    |
| Peregrine Falcon (S1, G4)              | SL, KC                 | 1- Formerly along MO river bluffs    |

| Species (ranks)                       | Regions                 | Criteria (safe dates), comments |
|---------------------------------------|-------------------------|---------------------------------|
| Passeriformes (perching birds)        |                         |                                 |
| Least Flycatcher (SU, G5)             | NE, NW                  | 1,2 (5/27-7/7)                  |
| Loggerhead Shrike (S2, G5)            | All (SW, KC, NW)        | 1,2 (4/20-7/20)                 |
| Common Raven (SX, G5)                 | AllAnytime observed     |                                 |
| Brown-headed Nuthatch (SX, G5)        | OZ, SE                  | Anytime observed                |
| Brown Creeper (SU, G5)                | SL, NE, OZ              | 1,2 (5/15-9/15)                 |
| Marsh Wren (S3, G5)                   | All (except SW, SE, OZ) | 1,2 (5/25-8/25)                 |
| Bachman's Warbler (SX, GH)            | All                     | Anytime observed                |
| Swainson's Warbler (S2, G4)           | SE, OZ, SW              | 1,2 (5/25-8/15)                 |
| Cerulean Warbler (S2S3, G4)           | All (OZ)                | 1,2 (6/1-8/10)                  |
| Chestnut-sided Warbler (S3, G5)       | All                     | 1,2 (6/1-8/10)                  |
| Black-throated Green Warbler (SU, G5) | SE                      | 1                               |
| Bachman's Sparrow (S1, G3)            | OZ, SW, SE              | 1,2 (6/1-8/15)                  |
| Painted Bunting (S3, G5)              | SW, OZ                  | 1,2 (5/25-8/1)                  |
| Yellow-headed Blackbird (S3, G5)      | NW (possible anywhere)  | 1                               |
| Pine Siskin (SU, G5)                  | All                     | 1                               |

## MDC Region abbreviations (Regions listed are those in which the species is most likely to be recorded).

| CE- Central   | KC- Kansas City      |
|---------------|----------------------|
| NE- Northeast | <b>NW- Northwest</b> |
| OZ- Ozark     | SL- St. Louis        |
| SE- Southeast | SW- Southwest        |



### **Explanation of Criteria**

#### 1. Confirmed breeding. Evidenced one or more of the following:

- Nest building (except wrens and woodpeckers)
- Nest with egg(s) or young (seen or heard)
- Used nest or eggshells
- Physiological evidence of breeding based upon bird in hand (e.g. brood patch)
- Distraction display or injury feigning
- Recently fledged young
- Adults entering or leaving nest site in circumstances indicating nesting
- Adult carrying fecal sac
- Adult carrying food

#### 2. Probable breeding (valid only between safe dates)

- Male and female seen together (not part of a flock)
- Bird holding territory
- Seven or more singing males detected in one visit
- Courtship or copulation
- Visiting probable nest site
- Agitated behavior or anxiety call (not provoked by observer)
- Nest building by wrens or woodpeckers

#### 3. Possible breeding (valid only between safe dates)

- Species heard or seen in breeding habitat
- Species heard or seen but not in breeding habitat

#### PLANTS OF CONSERVATION CONCERN REPORTING FORM

#### Complete relevant fields for which you have information

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| HERITAGE BIOLOGIST AND LAB  |  | Indata without manning                                 |
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| Heritage manner:  | Heritage man OC'er:  | Heritage Biologist:                                    |
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| ELEMENT IDENTIFICATION and  |  |  |
| Scientific Name:  | Common Nam   | ne:  |
|   |  |  |
| Directions to the survey site:  |  |  |
| County(ies):  |  |  |
| <b>USGS</b> Quadrangle name(s):   |  |  |
| Township: Range:_   | Section:   | Quarter Sections:                                      |
| GPS should be in NAD83, zone 15.  | If not, indicate: NAD  | Zone   |
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| Northing (Y)  | Longitude (W)_   |  |
| Explanation of possible GFS unit  | t inaccuracy:  |  |
| MAPPING   |  |  |
| Attach a map with the species' locat  |  | or shapefile format. No county maps, please.           |
| <b>Person who marked the map</b> (last n  | name, first name):   |  |
| Locational Uncertainty (buffer radio  | us): The mapped location is within   | Meters ORFeet ORMil                                    |
| Abundance (actual and/or estimated Condition (plants sterile, in bud, flow Person hours searching for Elemen Specimen or photograph taken (col General Habitat Description: | number observed): wer or fruit, evidence of disease, predatio  it: llector/photographer, collection #, year, a                 | on, or exotics):  acquisition number and repository:   |
| Is EO completely within bounda Owner(s):  | ries of Managed Area(s)? Yes OR Pa   | artially   |
|   | phone number and other relevant comme  | ents):   |
|   |  |  |
| Management Comments (needs for  | management, protection, monitoring, and  | d/or research):  |
| General Comments (include any ass   | sociated species and/or any other relevant   | t information):  |
| Form completed by (last name, first   | name):   |  |
| Return to: Resource   | assistance in helping maintain the Mis<br>Science Division – Heritage Botanist, M<br>x 180, Jefferson City, Missouri 65102. (: | lissouri Department of Conservation,                   |
| HERITAGE BIOLOGIST USE ONL<br>EO Rank: Orig   |  | omments:   |
| Reference(s) (include contact inform  | nation for any new references).  |  |

DJB 2011-09-27

**Version Author** (last name, first name): \_

## ANIMALS OF CONSERVATION CONCERN REPORTING FORM

### Complete relevant fields for which you have information

| HERITAGE BIOLOGIST AND LAB USE ONLY  EO Report Status (check one): NewUpdate with mappingUpdate without mapping  EO_ID:EONUM: ELCODE: Fed Status: SRANK:  Heritage mapper:Heritage map QC'er:Heritage Biologist:  Heritage mapping date:Heritage map QC date:Heritage Biologist Date:                 |
|---|
| ELEMENT IDENTIFICATION and LOCATION Scientific Name: Common Name: Survey Site Name: Directions to the survey site:  |
| County(ies):  USGS Quadrangle name(s):  Township: Range: Section: Quarter Sections:  GPS should be in NAD83, zone 15. If not, indicate: NAD Zone  UTM: Easting (X) OR: Latitude (N)  Northing (Y) Longitude (W)  Explanation of possible GPS unit inaccuracy:   |
| MAPPING Attach a map with the species' location clearly marked in hard copy, digital, or shapefile format. No county maps, please.  Person who marked the map (last name, first name):  Locational Uncertainty (buffer radius): The mapped location is within Meters OR Feet OR Miles                 |
| ELEMENT OCCURRENCE SURVEY INFORMATION  Survey Date (yyyy-mm-dd):Observer(s) (last name, first name): Abundance (actual and/or estimated number observed): Condition (evidence of reproduction, disease, predation, injury, etc. For cave species, indicate hibernaculum, maternity, etc.):            |
| External Measurements:  Person hours searching for Element: Sampling Methodology (traps, seining, call count, etc.):  Specimen or photograph taken (collector/photographer, collection #, year, acquisition number and repository:  |
| General Habitat Description:  |
| CONSERVATION INFORMATION  Managed Area Name(s):  Is EO completely within boundaries of Managed Area(s)? Yes OR Partially  Owner(s):  Owner Comments (include address/phone number and other relevant comments):  Management Comments (needs for management, protection, monitoring, and/or research): |
| General Comments (include any associated species and/or any other relevant information):  |
| Thank you for your assistance in helping maintain the Missouri Natural Heritage Program.  Return to: Resource Science Division – Heritage Zoologist, Missouri Department of Conservation,  3500 East Gans Road, Columbia, Missouri 65201. (573) 815-7900  |
| HERITAGE BIOLOGIST USE ONLY EO Rank: Origin Subrank: EO Rank Comments:  |
| Bat Biological Use:   |

#### TERRESTRIAL NATURAL COMMUNITY REPORTING FORM

Complete relevant fields for which you have information

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| ELEMENT IDENTIFICATION a Terrestrial Natural Community Survey Site Name: Directions to the survey site:  County(ies): USGS Quadrangle name(s): Township: Range GPS should be in NAD83, zone 15 UTM: Easting (X) Northing (Y) Explanation of possible GPS un  MAPPING Attach a map with the natural comperson who marked the map (last | simd LOCATION Name/Type:  Section: Solution: Solution: Solut | Quarter Sections:Zone   |
| Locational Uncertainty (buffer rad  | dius): The mapped location is within   | Meters ORFeet ORMiles   |
| with three openings of 1, 5, and 10 polygon is made up of this EO type  Community Significance (circle of EO Rank: Or resemblance to presettlement condi  | acres." If part of a natural community comp . E.g., "30% of a complex with wet-prairie a ne): Significant Exceptional Notable igin Subrank: EO Rank Con  | tructure including acreage. E.g., "Glade system elex, describe what percentage of the mapped and freshwater marsh."): |
| CONSERVATION INFORMATION  | ON   |   |
| Owner(s):   | daries of Managed Area(s)?: Yes OR Pa  |   |
| Owner Comments (include addres  | s/phone number and other relevant commen   | its):   |
| Management Comments (needs for  | or management, protection, monitoring, and   | /or research):  |
| General Comments (include any a   | ssociated species and/or any other relevant i  | information):   |
| Form completed by (last name, fir   | st name):  | Date:   |
| Return to: Wil  | nr assistance in helping maintain the Miss<br>dlife Division – Heritage Ecologist, Missou<br>ox 180, Jefferson City, Missouri 65102. (5'   | ri Department of Conservation,  |
| HERITAGE BIOLOGIST USE ON Reference(s) (include contact infor   |  |   |

DJB 2011-09-27

**Version Author** (last name, first name): \_

## AQUATIC NATURAL COMMUNITY REPORTING FORM Complete relevant fields for which you have information

| EO_ID:   | one): New _  | Opaa   | ne with mapping _  | Update without m   | apping   |
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|  |  |  |  |  |  |
| Survey Site Name:  |  | J F  |  |  |  |
| Directions to the survey   | site:  |  |  |  |  |
| County(ies):   |  |  |  |  |  |
| <b>USGS Quadrangle name</b>  | e(s):  |  |  |  |  |
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| GPS should be in NAD8  | 3, zone 15. If 1   | not, indicate: N   | NAD  | Zone   |  |
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| MAPPING Attach a map with the na   | tural comm. lo   | cation clearly m   | arked in hard copy.  | digital, or shapefile format. N  | lo county maps, pleas  |
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| HERITAGE BIOLOGIST USE ONLY Reference(s) (include contact information | n for any new references): |
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| Version Author (last name, first name):                               |                            |